Self Diagnosis
Supported model

SERVICE MANUAL

AE-6B CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-29FX66E	*RM-934*	*ESP*	*SCC-Q81B-A*	***KV-29FX66K***	*RM-934*	*OIRT*	*SCC-Q82A-A*

FD Trinitron

KV-29FX66

RM-934

TRINITRON ® COLOR TV

SONY®

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

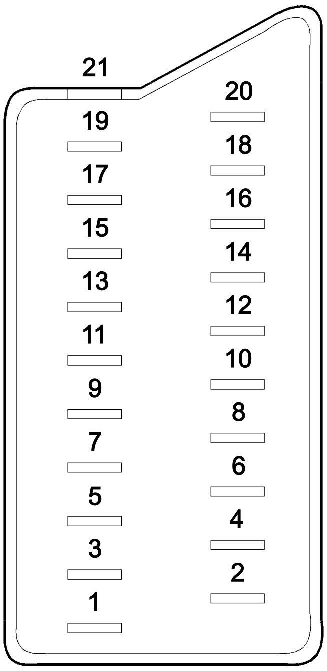
LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
E	B/G/H	GERMAN/NICAM Stereo	VHF : E2-E12 UHF : E21-E69 CABLE TV : S01-S03, S1-S20	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
K	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E2-E12, R01-R12 UHF : E21-E69, R21-R69 CABLE TV : S01-S03, S1-S20	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

Picture Tube	FD Trinitron Approx 72 cm (29 inches) (Approx 68 cm picture measured diagonally) 104 degree deflection	**Sound Output**	
		Right and Left speaker Subwoofer	2x20W (Music Power) 2x10W (RMS) 1x30W (Music Power) 1x15W (RMS)
Input/Output Terminals [REAR]		**General Specifications**	
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Power Requirements	220 - 240V
		Power Consumption	130W
2: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (selectable)	Dimensions	Approx 771x585x506mm
		Weight	Approx 50kg
3: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs for Video and Audio signals (monitor out)	Supplied Accessories	RM-934 Remote Commander (1) IEC designated R6 battery (2)
Phono Jacks	Output Connectors variable for Audio Signals	Other Features	100 Hz picture, TV system Autodetection, Teletext, Smartlink, BBE, PIP, Virtual Dolby
Input/Output Terminals [SIDE]		**Remote control system : Infrared control**	
Headphone jack	stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Audio inputs	phono jacks		
Video inputs	phono jacks		
S Video input	4 pin DIN		
Design and specifications are subject to change without notice.			

Model Name Item	KV-29FX66E	KV-29FX66K
Pal Comb	OFF	OFF
PIP	ON	ON
RGB Priority	ON	ON
Woofer Box	ON	ON
Scart 1	ON	ON
Scart 2	ON	ON
Scart 3	ON	ON
Front in (4)	ON	ON
Projector	OFF	OFF
AKB in 16:9 mode	ON	ON
Norm B/G	ON	ON
Norm I	OFF	OFF
Norm D/K	OFF	ON
Norm AUS	OFF	OFF
Norm L	OFF	OFF
Norm SAT	OFF	OFF
Norm M	OFF	OFF
Teletext	ON	ON
Nicam Stereo	ON	ON

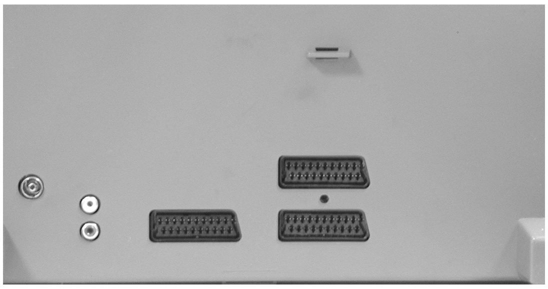
21 pin connector



Pin No	1	2	3	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	–	–	Red input	0.7 +/- 3dB, 75 ohms, positive
	–	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	○	–	–	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	–	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



Front Connection Panel

S-Video socket

S Video socket pin configuration		
Pin No	Signal	Signal Level
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V+/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB
4	C (S signal) input	0.3V+/- 3dB 75ohm, positive Sync.

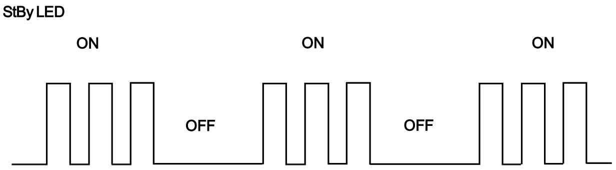
AE-6B SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AE-6B chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.
Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

Error Message	LED Code
No error	00
Reserved	01
OCP (Over Current Protection)	02
Over Voltage Protection	03
No Vertical Sync	04
IKR Error at power on	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Horizontal Protection	08
Tuner no acknowledge at power on	09
Sound Processor Error	10
Reserved	11
Scanrate Error	12
DAC Error	13
Backend Error	14
Dynamic Convergence Error	15
PIP Error	16

Flash Timing Example : e.g. error number 3



How to enter into Table 2

1. Turn on the main power switch of the TV set.
2. Program Remote Commander for Operation in Service Mode. [See Page 20].
2. Press ‘VIDEO’ ‘VIDEO’ > ‘MENU’ > ERROR MENU on the Remote Commander.
3. The following table will be displayed indicating the error count.

Table 2

ERROR MENU			
E02	OCP	(0, 255)	0
E03	OVP	(0, 255)	0
E04	VSYNC	(0, 255)	0
E05	IKR	(0, 255)	0
E06	IIC	(0, 255)	0
E07	NVM	(0, 255)	0
E08	HPROT	(0, 255)	0
E09	TUNER	(0, 255)	0
E10	SOUNDP	(0, 255)	0
E11	-	(0, 255)	0
E12	SCANRATE	(0, 255)	0
E13	DAC	(0, 255)	0
E14	BACKEND	(0, 255)	0
E15	DYN CON	(0, 255)	0
E16	PIP	(0, 255)	0
WORKING TIME			
HOURS			14
MINUTES			7

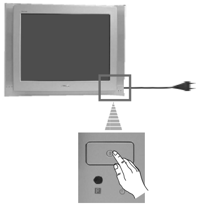
Note: To clear the error count data press ‘80’ on the Remote commander.

The operating instructions mentioned here are partial abstracts from the ‘Operating Instruction Manual’. The page numbers of the ‘Operating Instruction Manual’ remain as in the manual.

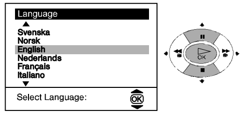
Switching On the TV and Automatically Tuning

The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to: 1) choose the language of the menu screen, 2) choose the country in which you wish to operate the TV, 3) adjust the picture slant 4) search and store all available channels (TV Broadcast) and 5) change the order in which the channels (TV Broadcast) appear on the screen.
However, if you need to change any of these settings at a later date, you can do that by selecting the appropriate option in the (Set Up menu) or by pressing the Auto Start Up Button ⏭ on the TV set.

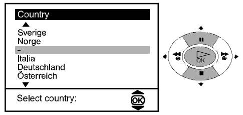
1 Connect the TV plug to the mains socket (220-240V AC, 50Hz)
The first time that the TV set is connected, it is usually turned on. If the TV is off, press the ⏻ on/off button on the TV set to turn on the TV.
The first time you switch on the **TV**, a **Language** menu displays automatically on the TV screen.



2 Press the ↓ or ↑ button on the remote control to select the language, then press the **OK** button to confirm your selection. From now on all the menus will appear in the selected language.


Language
Svenska
Norsk
English
Nederlands
Français
Italiano
Select Language:

3 The **Country** menu appears automatically on the TV screen. Press the ↓ or ↑ button to select the country in which you will operate the TV set, then press the **OK** button to confirm your selection.

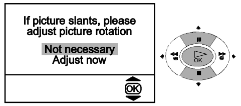

Country
Sverige
Norge
-
Italia
Deutschland
Österreich
Select country:

- If the country in which you want to use the TV set does not appear in the list, select “-” instead of a country.
- In order to avoid wrong teletext characters for Cyrillic languages we recommend to select Russia country in the case that your own country does not appear in the list.

4 Because of the earth’s magnetism, the picture might slant. The **Picture Rotation** menu allows you to correct the picture slants if it is necessary.

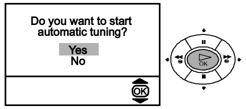
a) If it is not necessary, press ↓ or ↑ to select **Not necessary** and press **OK**.

b) If it is necessary, press ↓ or ↑ to select **Adjust now**, then press **OK** and correct any slant of the picture between –5 and +5 by pressing ↓ or ↑ . Finally press **OK** to store.

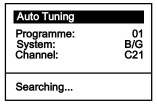

If picture slants, please adjust picture rotation
Not necessary
Adjust now

continued...

5 The Auto Tuning menu appears on the screen. Press the **OK** button to select **Yes**.

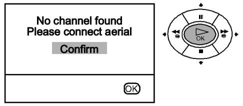

Do you want to start automatic tuning?
Yes
No

6 The TV starts to automatically search and store all available broadcast channels for you.


Auto Tuning
Programme: 01
System: B/G
Channel: C21
Searching...

This procedure could take some minutes. Please be patient and do not press any buttons, otherwise the automatic tuning will not be completed.

If no channels were found during the auto tuning process then a new menu appears automatically on the screen asking you to connect the aerial. Please connect the aerial (see page 6) and press **OK**. The auto tuning process will start again.

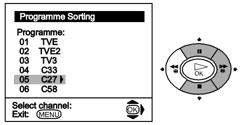

No channel found
Please connect aerial
Confirm

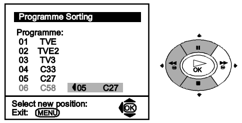
7 After all available channels are captured and stored, the **Programme Sorting** menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.

a) If you wish to keep the broadcast channels in the tuned order, go to step 8.

b) If you wish to store the channels in a different order:

1. Press the ↓ or ↑ button to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press the → button.
2. Press the ↓ or ↑ button to select the new programme number position for your selected channel (TV Broadcast), then press ← .
3. Repeat steps b)1 and b)2 if you wish to change the order of the other channels.


Programme Sorting
Programme:
01 TVE
02 TVE2
03 TV3
04 C33
05 C27
06 C58
Select channel:
Exit: MENU


Programme Sorting
Programme:
01 TVE
02 TVE2
03 TV3
04 C33
05 C27
06 C58 05 C27
Select new position:
Exit: MENU

8 Press the **MENU** button to remove the menu from the screen.

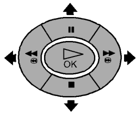
Your TV is now ready for use

Introducing and Using the Menu System

Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

1 Press the **MENU** button to switch the first level menu on.

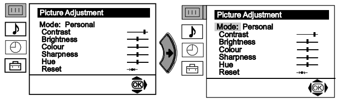
2 • To highlight the desired menu or option, press ⬇ or ⬆.
- To enter to the selected menu or option, press ➡.
- To return to the last menu or option, press ⬅.
- To alter settings of your selected option, press ⬇ / ⬆ / ⬅ or ➡.
- To confirm and store your selection, press **OK**.



3 Press the **MENU** button to remove the menu from the screen.

Menu Guide

Level 1 | **Level 2** | **Level 3 / Function**


Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset
OK
Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset
OK

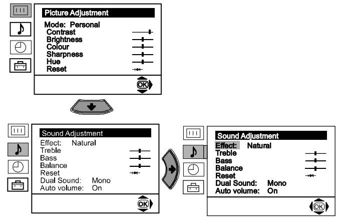
PICTURE ADJUSTMENT
The "Picture Adjustment" menu allows you to alter the picture adjustments.

To do this: after selecting the item you want to alter press ➡ , then press repeatedly ⬇ / ⬆ / ⬅ or ➡ to adjust it and finally press **OK** to store the new adjustment.
This menu also allows you to customise the picture mode based on the programme you are watching:
- ⬇ **Personal** (for individual settings).
- ⬇ **Live** (for live broadcast programmes, DVD and Digital Set Top Box receivers).
- ⬇ **Movie** (for films).

- ***Brightness, Colour** and **Sharpness** can only be altered if "Personal" mode is selected.*
- ***Hue** is only available for NTSC colour signal (e.g: USA video tapes).*
- *Select **Reset** and press **OK** to reset the picture to the factory preset levels.*

continued...

Level 1 | **Level 2** | **Level 3 / Function**


Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset
OK
Sound Adjustment
Effect: Natural
Treble
Bass
Balance
Reset
Dual Sound: Mono
Auto volume: On
OK
Sound Adjustment
Effect: Natural
Treble
Bass
Balance
Reset
Dual Sound: Mono
Auto volume: On
OK

SOUND ADJUSTMENT
The "Sound Adjustment" menu allows you to alter the sound adjustments.

To do this: after selecting the item you want to alter, press ➡. then press repeatedly ⬇ / ⬆ / ⬅ or ➡ to adjust it and finally press **OK** to store the new adjustment.

Effect	⬇ **Natural:**	enhances clarity, detail and presence of sound by using "BBE High Definition Sound system"*.
	⬇ **Dynamic:**	"BBE High Definition Sound system"* intensifies clarity and presence of sound for better intelligibility and musical realism.
	⬇ **Dolby**Virtual:**	simulates the sound effect of Dolby Prologic surround.
	⬇ **Off:**	flat response.
Treble	⬅ Less	➡ More
Bass	⬅ Less	➡ More
Balance	⬅ Left	➡ Right
Reset	Ⓞ Resets the sound to the factory preset levels.	
Dual Sound:	➡	• *For a stereo broadcast:* ⬇ **Mono**. ⬇ **Stereo**. • *For a bilingual broadcast:* ⬇ **Mono** (for mono channel if available). ⬇ **A** (for channel 1). ⬇ **B** (for channel 2).
Auto Volume:	⬇ **On:**	volume level changes according to the broadcast signal.
	⬇ **Off:**	volume level of the channels will stay the same, independent of the broadcast signal (e.g. in the case of advertisements).

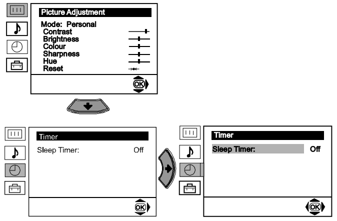
- *If you are listening to the TV through headphones, the "Effect" option will automatically switched to Off.*
- *If you switch "Effect" to "Dolby Virtual", the "Auto Volume" option will automatically be switched to "Off" and vice versa.*

* *The "BBE High Definition Sound system" is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. Teh word "BBE" and BBE Symbol are trademarks of BBE Sound, Inc.*

** *This TV has been designed to create the "Dolby Surround" sound effect by simulating the sound of four speakers with two speakers, when the broadcast audio signal is Dolby Surround encoded. The sound effect can also be improved by connecting a suitable external amplifier (for details refer to "Connecting to external audio Equipment" on page 19).*

** *Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories.*

Level 1 **Level 2** **Level 3 / Function**

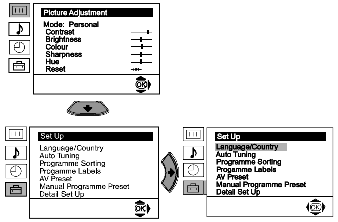

Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset
OK
Timer
Sleep Timer: Off
Timer
Sleep Timer: Off
OK

SLEEP TIMER

The "Sleep Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically into the standby mode.

To do this: after selecting the option press ➡, then press ⬇ or ⬆ to set the time period delay (max. of 4 hours) and finally press **OK** to store.

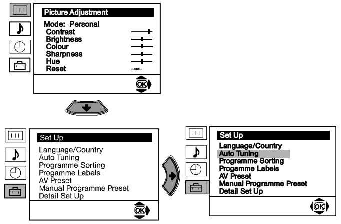
- *While watching the TV, you can press the* ⊞ *button on the remote control to display the time remaining.*
- *One minute before the TV switches itself into standby mode, the time remaining is displayed on the TV screen automatically.*


Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset
OK
Set Up
Language/Country
Auto Tuning
Programme Sorting
Progamme Labels
AV Preset
Manual Programme Preset
Detail Set Up
OK

LANGUAGE / COUNTRY

The "Language/Country" option in the "Set Up" menu allows you to select the language that the menus are displayed in. It also allows you to select the country in which you wish to operate the TV set.

To do this: after selecting the option, press ➡ and then proceed in the same way as in the steps 2 and 3 of the section "Switching On the TV and Automatically Tuning".


Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset
OK
Set Up
Language/Country
Auto Tuning
Programme Sorting
Progamme Labels
AV Preset
Manual Programme Preset
Detail Set Up
OK

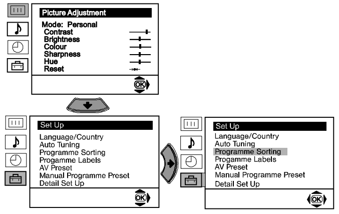
AUTO TUNING

The "Auto Tuning" option in the "Set Up" menu allows you to automatically search for and store all available TV channels.

To do this: after selecting the option, press ➡ and then proceed in the same way as in TV steps 5 and 6 of the section "Switching On the TV and Automatically Tuning".

continued...

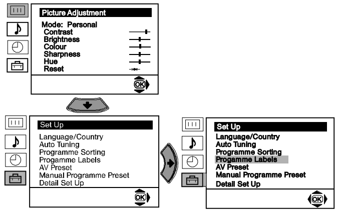
Level 1 **Level 2** **Level 3 / Function**


Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset
OK
Set Up
Language/Country
Auto Tuning
Programme Sorting
Progamme Labels
AV Preset
Manual Programme Preset
Detail Set Up
OK

PROGRAMME SORTING

The "Programme Sorting" option in the "Set Up" menu allows you to change the order in which the channels (TV Broadcast) appear on the screen.

To do this: after selecting the option, press ➡ and then proceed in the same way as in step 7 b) of the section "Switching On the TV and Automatically Tuning".

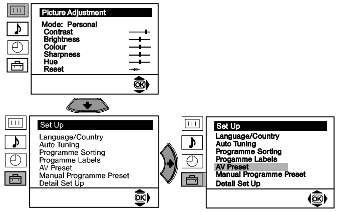

Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset
OK
Set Up
Language/Country
Auto Tuning
Programme Sorting
Progamme Labels
AV Preset
Manual Programme Preset
Detail Set Up
OK

PROGRAMME LABELS

The "Programme Labels" option in the "Set Up" menu allows you to name a channel using up to five characters (letters or numbers).

To do this:

1. After selecting the option, press ➡, then press ⬇ or ⬆ to select the programme number with the channel you wish to name.
2. Press ➡. With the first element of the **Label** column highlighted, press ⬇ or ⬆ to select a letter or number (select "-" for a blank), then press ➡ to confirm this character. Select the other four characters in the same way. Finally press **OK** to store.


Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset
OK
Set Up
Language/Country
Auto Tuning
Programme Sorting
Progamme Labels
AV Preset
Manual Programme Preset
Detail Set Up
OK

AV PRESET

The "AV Preset" option in the "Set Up" menu allows you to designate a name to the external equipment you have connected to the sockets of this TV.

To do this:

1. After selecting the option, press ➡, then press ⬇ or ⬆ to select the input source you wish to name (**AV1, AV2** and **AV3** are for the rear Scarts and **AV4** for side connectors). Then press ➡.
2. In the label column automatically appears a label:
   - **a)** If you want to use one of the 6 predefined label (**CABLE, GAME, CAM, DVD, VIDEO** or **SAT**), press ⬇ or ⬆ to select the desired label and finally press **OK** to store.
   - **b)** If you want to set a different label, select **Edit** and press ➡. Then with the first element highlighted, press ⬇ or ⬆ to select a letter, number or "-" for a blank, then press ➡ to confirm this character. Select the other four characters in the same way and finally press **OK** to store.

continued...

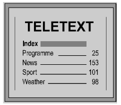
Teletext

ⓘ Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.

⚠ Make sure to use a channel (TV Broadcast) with a strong signal, otherwise teletext errors may occur.

To Switch On Teletext :

After selecting the TV channel which carries the teletext service you wish to view, press ≣.



To Select a Teletext page:

Input 3 digits for the page number, using the numbered buttons.

- *If you have made a mistake, retype the correct page number.*
- *If the counter on the screen continues searching, it is because this page is not available. In that case, input another page number*

To access the next or preceding page:

Press **PROG +** (≣▲) or **PROG -** (≣▼).

To superimpose teletext on to the TV:

Whilst you are viewing teletext, press ≣. Press it again to cancel teletext mode.

To freeze a teletext page:

Press ⊕/⊕. Press it again to cancel the freeze.

To reveal concealed information (e.g: answer to a quiz):

Press ⊞/?. Press it again to conceal the information.

To select a sub page:

A teletext page may consist of several sub pages. In this case the page number that appears on the upper left corner will become from yellow to green colour and one or more arrows will appear next to the page number. Press repeatedly ◆ or ◆ buttons on the remote control to watch the desired sub page.

To Switch Off Teletext:

Press ▢.

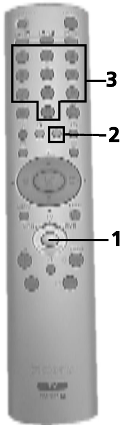
Fastext

ⓘ Fastext service lets you access pages with one button push.
While you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) to access the corresponding page.

Remote Control Configuration for VCR/DVD

This remote control is default to operate basic functions of this Sony TV, Sony DVD and most of Sony VCR when batteries are initially installed. To control other VCR and DVD major brands and some Sony VCR models, please complete the following steps:

ⓘ
- Before you start, look up the 3 digit code for your brand of DVD or VCR from the list below. On those brands that have more than one code, enter the first code number.
- Sony will endeavour to update the software according to market changes. Therefore, please refer to code table included with the remote control for latest code set.



1 Press the Media Selector button on the remote control repeatedly until the required VCR or DVD green light is lit.

⚠ If Media Selector is on TV position, code numbers will not be stored.

2 Before the green light goes out, press and hold the yellow button for approximately 6 seconds until the green light starts flashing.

3 Whilst the green light is flashing, enter all three digits of the code for your brand using the number buttons on the remote control.

ⓘ If your selected code is entered correctly, all three green lights will be lit momentarily.

4 Turn on your brand VCR or DVD and check that the main functions work.

⚠
- If your device is not working or some of the functions do not work please check you entered the correct code set or try the next code listed against the brand.
- Your brand codes may be lost if weak batteries are not replaced within a few minutes. To reset your brand DVD or VCR please repeat the above steps. A small label is added inside the battery door to allow you to record your brand codes.
- Not all brands are covered and not all models of every brand may be covered.

VCR Brand List

Brand	Code
SONY (VHS)	301, 302, 303, 308, 309
SONY (BETA)	303, 307, 310
SONY (DV)	304, 305, 306
AIWA	325, 331, 351
AKAI	326, 329, 330
DAEWOO	342, 343
GRUNDIG	358, 355, 360, 361, 320, 351
HITACHI	327, 333, 334
JVC	314, 315, 322, 344, 352, 353, 354, 348, 349
LG	332, 338
LOEWE	358, 355, 360, 361, 320, 351
MATSUI	356, 357
ORION	328
PANASONIC	321, 323
PHILIPS	311, 312, 313, 316, 317, 318, 358, 359
SAMSUNG	339, 340, 341, 345
SANYO	335, 336
SHARP	324
THOMSON	319, 350
TOSHIBA	337

DVD Brand List

Brand	Code
SONY	001
AIWA	021
DENON	018, 027, 020, 002
GRUNDIG	009, 028, 023, 024, 016, 003
HITACHI	025, 026, 015, 004
JVC	006, 017
KENWOOD	008
LG	015, 014
LOEWE	009, 028, 023, 024, 016, 003
MATSUI	013, 016
ONKYO	022
PANASONIC	018, 027, 020, 002
PHILIPS	009, 028, 023, 024, 016, 003
PIONEER	004
SAMSUNG	011, 014
SANYO	007
SHARP	019, 027
THOMSON	012
TOSHIBA	003
YAMAHA	018, 027, 020, 002

Specifications

TV system:
Depending on your country selection:
B/G/H, D/K

Colour system:
PAL, SECAM
NTSC 3.58, 4.43 (only Video In)

Channel Coverage:

VHF:	E2-E12
UHF:	E21-E69
CATV:	S1-S20
HYPER:	S21-S41
D/K:	R1-R12, R21-R69

Picture Tube:
Flat Display FD Trinitron
29" (approx. 73 cm. measured diagonally)

Rear Terminals

⊖→1/-⊖ 1	21-pin scart connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
⊖→2/-⊖ 2 (SMARTLINK)	21-pin Scart connector (CENELEC standard) including audio / video input, RGB input, TV audio/video output.
⊖→3/-⊖ 3 (SMARTLINK)	21-pin Scart connector (CENELEC standard) including audio / video input, S video input, selectable audio / video output and Smartlink interface.
⊖→	audio outputs (Left/ Right) - phono jacks

Side Terminals

-⊖ 4	S Video input – 4 pin DIN
-⊖ 4	video input – phono jack
-⊖ 4	audio input – phono jacks
☊	headphones jack

Sound Output:
2 x 20 W (music power)
2 x 10 W (RMS)
Woofer:
30 W (music power)
15 W (RMS)

Power Consumption:
130 W

Standby Power Consumption:
0.3 W

Dimensions (w x h x d) :
Approx. 771 x 585 x 506 mm.

Weight:
Approx. 50 Kg.

Accessories supplied:
1 Remote Control (RM-934)
2 Batteries (IEC designated)

Other features:
- 100 Hz picture
- Teletext, Fastext, TOPtext (250 page TEXT memory)
- Sleep Timer
- Smartlink (direct link between your TV set and a compatible VCR. For more information on Smartlink, please refer to the Instruction Manual of your VCR).
- TV system Autodetection.
- Dolby Virtual.
- BBE.
- PIP.

Design and specifications are subject to change without notice.

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Troubleshooting

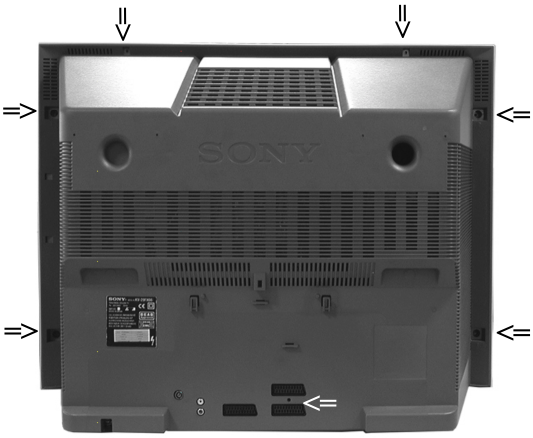
ⓘ Here are some simple solutions to the problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark) and no sound.	• Check the aerial connection. • Plug the TV in and press the ⓘ button on the front of the TV. • If the standby indicator ⏻ is on, press **TV** I/⏻ button on the remote control.
Poor or no picture (screen is dark), but good sound.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings.
No picture or no menu information from equipment connected to the Scart connector.	• Check that the optional equipment is on and press the ⊖ button repeatedly on the remote control until the correct input symbol is displayed on the screen.
Good picture, no sound.	• Press the ◿ +/- button on the remote control. • Check that "TV Speakers" is "On" on the "Detail Set Up" menu. • Check that headphones are not connected.
No colour on colour programmes.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings.
Distorted picture when changing programmes or selecting teletext.	• Turn off any equipment connected to the Scart connector on the rear of the TV.
Wrong characters appear when viewing teletext.	• Using the menu system, enter to the "Language/Country" menu and select the country in which you operate the TV set. For Cyrillic languages, we recommend to select Russia country in the case that your own country does not appear in the list.
Picture slanted	• Using the menu system, select the "Picture Rotation" option in the "Detail Set Up" menu to correct the picture slant.
Noisy picture when viewing a TV channel.	• Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception. • Using the menu system, select the "Noise Reduction" option in the "Detail Set Up" menu and select "Auto" to reduce the noise in the picture.
No unscrambling or unstable picture whilst viewing a scrambling channel with a decoder connected through the Scart connector ⊖→3/-⊖3.	• Using the menu system, select the "Set Up" menu. Then enter to "Detail Set Up" option and set "AV2 Output" to "TV".
Remote control does not function.	• Check that the Media Selector on the remote control is set according to the device you are using (VCR, TV or DVD). • If the remote control does not operate the VCR or DVD even when the Media Selector has been set correctly. Enter the necessary code set as explained on "Remote Control Configuration for VCR/DVD" chapter of this instruction manual. • Replace the batteries.
The standby indicator ⏻ on the TV flashes.	• Contact your nearest Sony service centre.

⚠ If you continue to experience problems, have your TV serviced by qualified personnel. Never open the casing yourself.

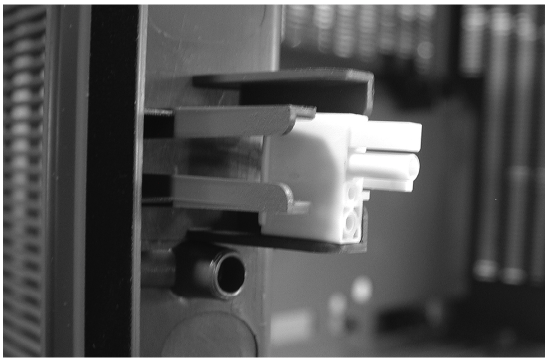
SECTION 2 DISASSEMBLY

2-1. Rear Cover Removal



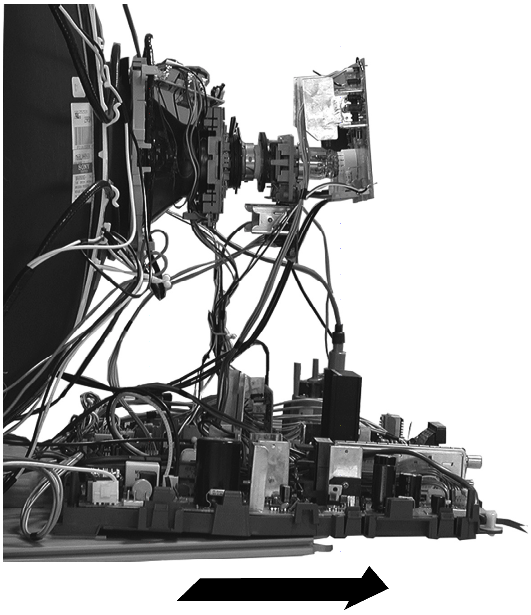
Remove the rear cover fixing screws indicated. Take care when removing the rear cover not to damage the speaker cables [Disconnect the speaker connector] as speakers are fitted inside the rear cover.

2-2. Speaker Connector Disconnection

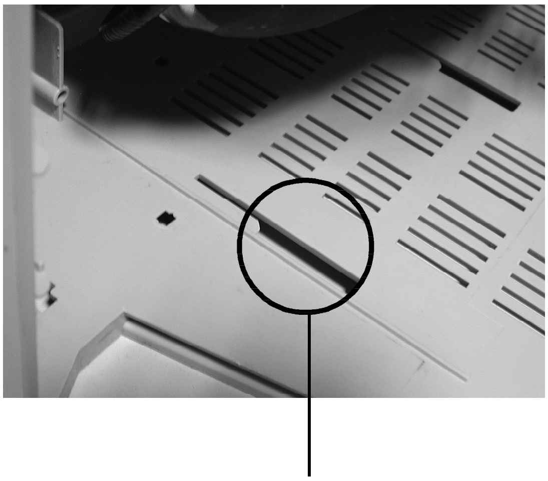


Before completely removing the rear cover disconnect the speaker connector which is located on the inside.

2-3. Chassis Removal and Refitting

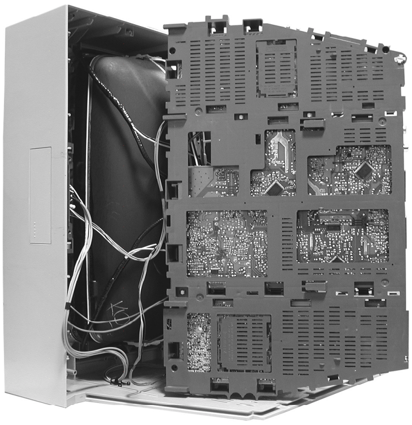


To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



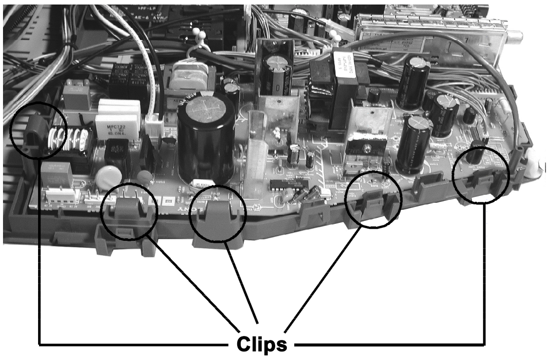
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the interconnecting leads in their respective purse locks.

2-4. Service Position



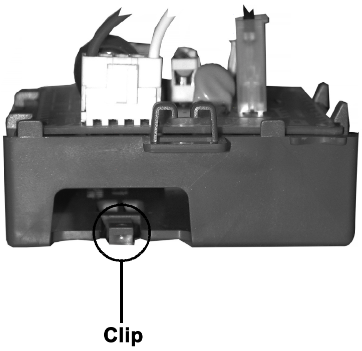
Position the chassis as indicated to access the solder side. To gain access to the underside of the boards follow the instructions on page 15. [Removal and Replacement of the main bracket bottom plates].

2-5. D and G Board Removal



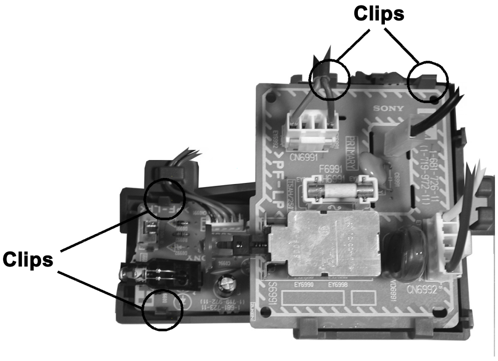
To remove the G Board release the clips circled and ease the board gently away from the support bracket. Removal of the D Board follows the same procedure.

2-6. F4 Bracket Removal



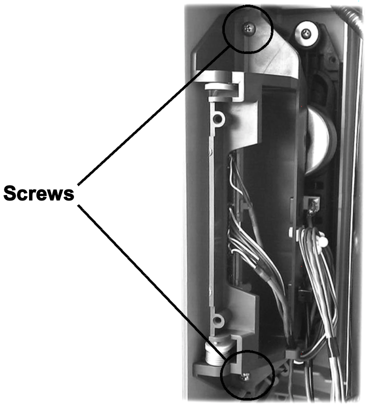
Release the clips circled and pull the bracket towards the rear of the set. The bracket can then be removed to allow access to the boards.

2-7. F4 and H1 Board Removal



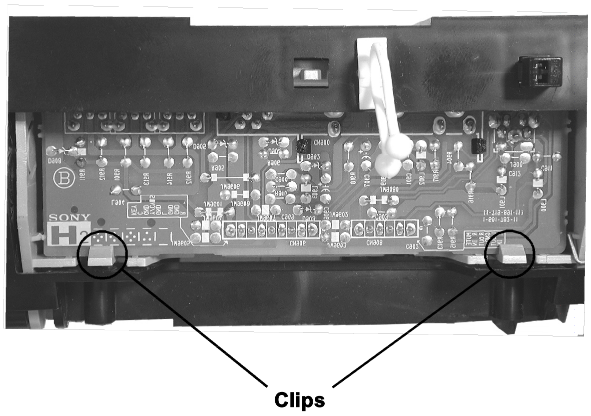
To remove the F4 and H1 Boards release the clips circled and ease the boards gently away from the support bracket.

2-8. Side Control Module Removal



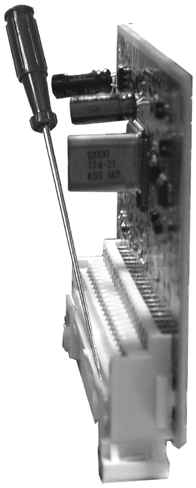
Remove the two screws fixing the user control module to the side of the set. The control module can then be removed by sliding it towards the rear of the set allowing access to the H2 Board.

2-9. H2 Board Removal



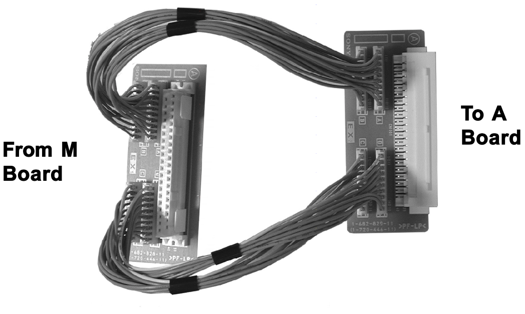
To remove the H2 Board release the two clips circled and ease the board gently away from the support bracket.

2-10. M Board Removal



To remove the M Board gently release the two clips with a screwdriver and remove the board from its socket vertically.

2-11. Service Connector for M Board



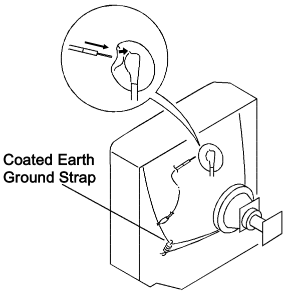
Extender Board Assembly A-1642-293-A

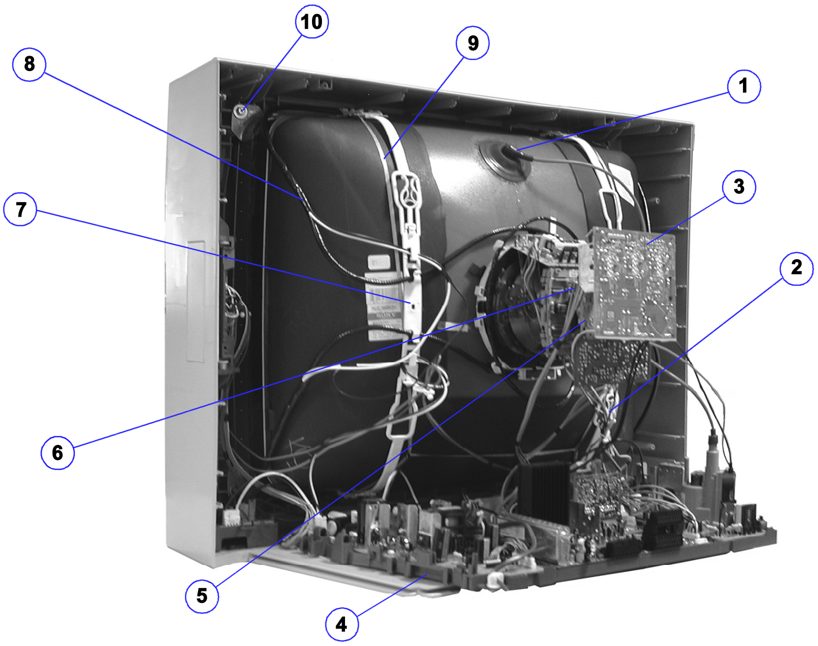
If the M Board needs to be removed for testing when the chassis is placed in its service position, it would be necessary to use an extender board and extension cable as indicated above.
The Extender board and extension cable are available as a service part by ordering the part number as indicated.

2-12. Picture Tube Removal

WARNING:
BEFORE REMOVING
THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT ***before*** attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

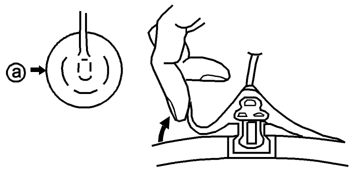




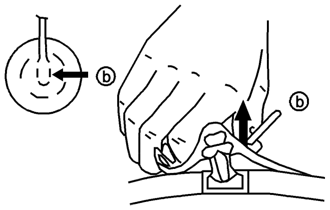
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
3. Remove the C Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the Neck assembly fixing screw and remove.
6. Loosen the Deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
8. Remove the Degaussing Coils.
9. Remove the CRT grounding strap and spring tentioners.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
    [Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

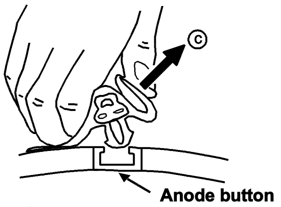
*** REMOVING PROCEDURES.**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ



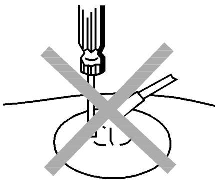
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ

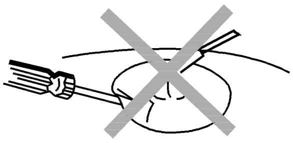


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

How to handle the Anode-Cap

1. To prevent damaging the surface of the anode-cap do not use sharp materials.
2. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
3. A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
4. Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.



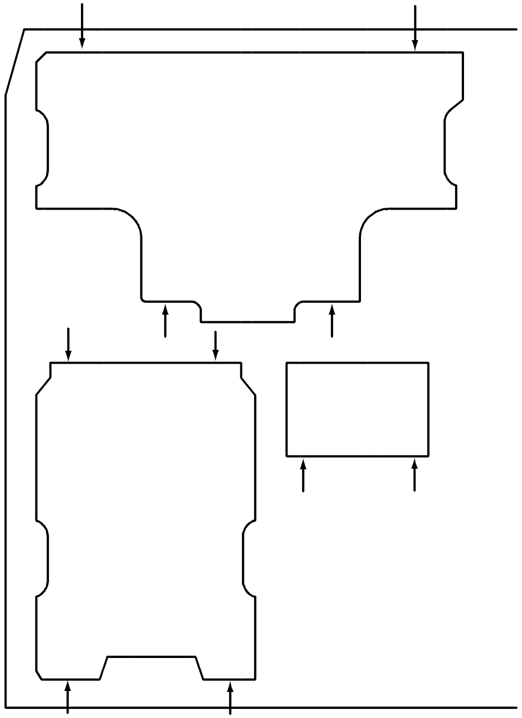


REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed wiring board, the bottom plates fitted to the main chassis bracket require to be removed.
This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note : There are 3 plates fitted to the main bracket and secured by3 gates.
Only remove the necessary plate to gain access to the printed wiring board.

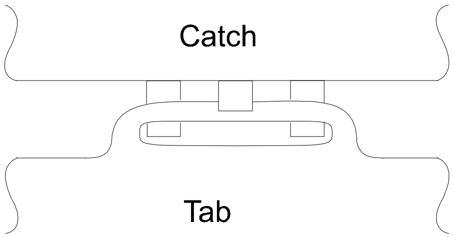


⚠ For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings :

  Contrast .... normal

  Brightness .... normal

Carry out the adjustments in the following order :

3-1. Beam Landing.
3-2. Convergence.
3-3. Focus.
3-4. White Balance.

Note : Test equipment required.

1. Color bar/pattern generator.
2. Degausser.
3. Oscilloscope.
4. Digital multimeter.

3-1. Beam Landing

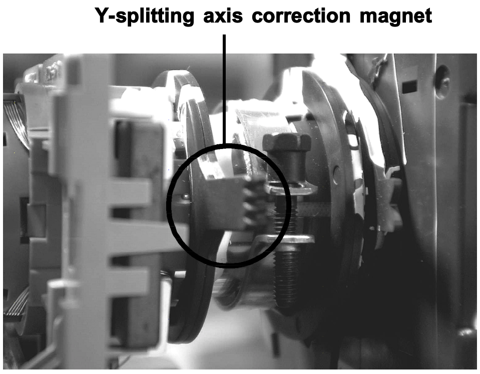
Preparation :

1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the TV set's power and degauss with a degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis.

1. Input a crosshatch signal from the pattern generator.
2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
3. Position the neck assembly as indicated in Fig.3-2.
4. Loosen the deflection yoke fixing screw.
5. Move the deflection yoke as far forward as is possible.
6. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig 3-3]
7. Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1



Caution :

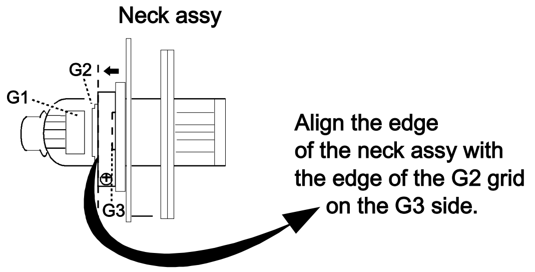
High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

(2) Landing

Note : Before carrying out the following adjustments adjust the magnets as indicated below [See Fig.3-4].

1. Input a crosshatch signal from the signal generator.
2. Rough-adjust the focus and horizontal convergence.
3. Switch from the crosshatch pattern to an all-red pattern.
4. Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-5].
5. Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
6. Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position]
7. Position the deflection yoke between the two marks indicated above.
8. Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
9. When the position of the deflection yoke has been determined, fasten it with its fixing screw.
10. Switch the pattern generator to green then blue and confirm the purity.
11. If the beam does not land correctly in all the corners of the screen, use disk magnets to correct it. [Confirm the corner landing for green and blue]

Fig.3-2


Neck assy
G2
G1
G3
Align the edge of the neck assy with the edge of the G2 grid on the G3 side.

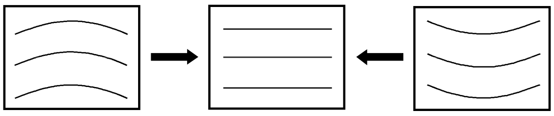
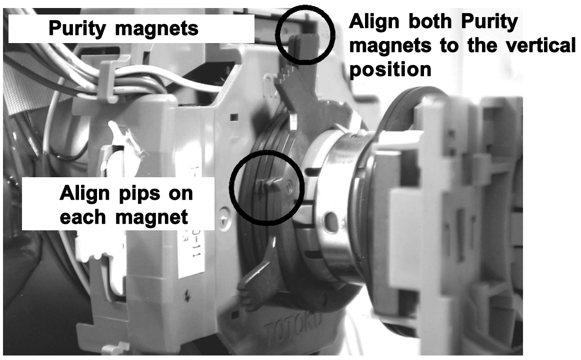
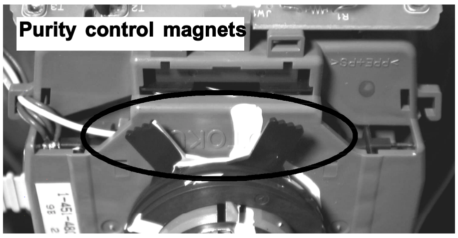


Fig.3-3

Fig.3-4


Purity magnets
Align both Purity magnets to the vertical position
Align pips on each magnet


Purity control magnets

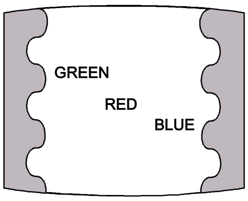
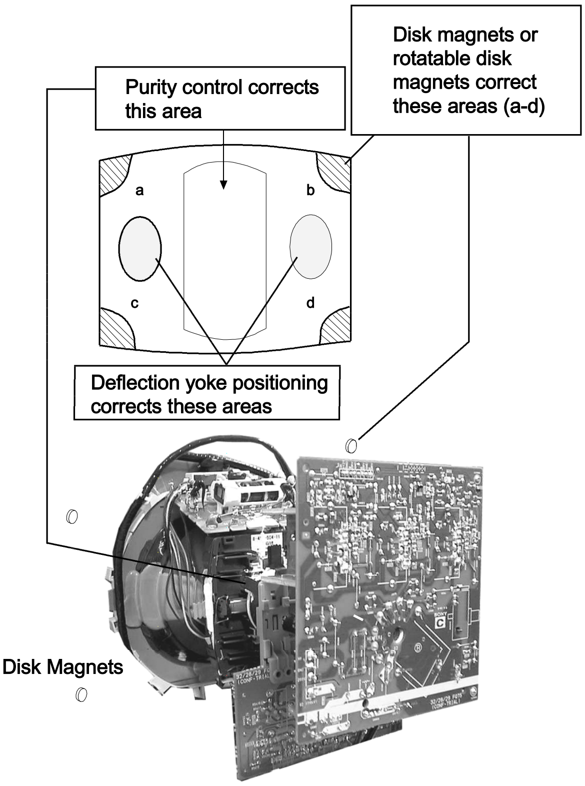

GREEN
RED
BLUE

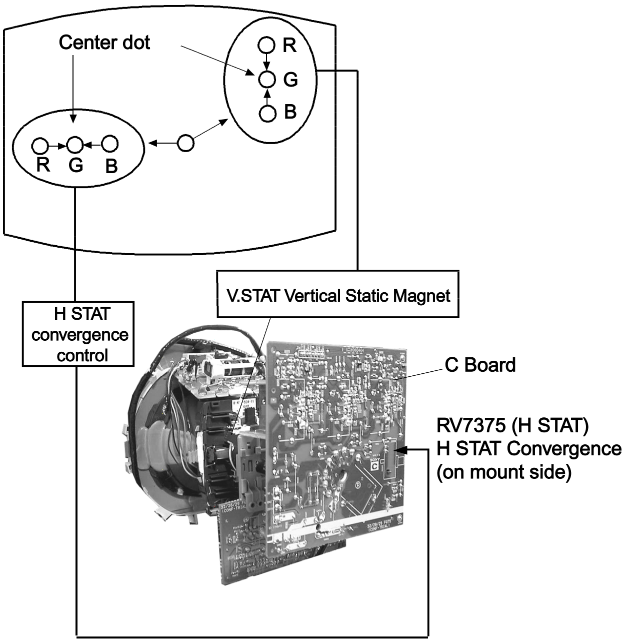
Fig.3-5


Purity control corrects this area
Disk magnets or rotatable disk magnets correct these areas (a-d)
a
b
c
d
Deflection yoke positioning corrects these areas
Disk Magnets

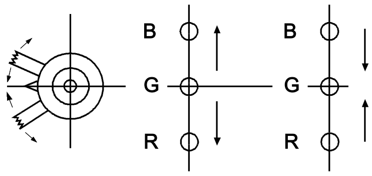
3-2. Convergence

(1) Screen centre convergence [Static convergence]

1. Input a dot pattern signal from the pattern generator.
2. Normalize the picture setting.
3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.


Center dot
R
G
B
R G B
H STAT convergence control
V.STAT Vertical Static Magnet
C Board
RV7375 (H STAT)
H STAT Convergence
(on mount side)

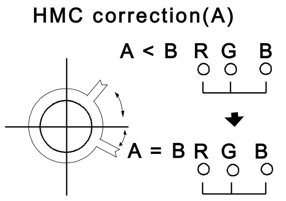
By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.

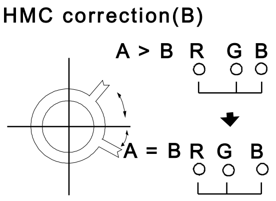


Note: Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

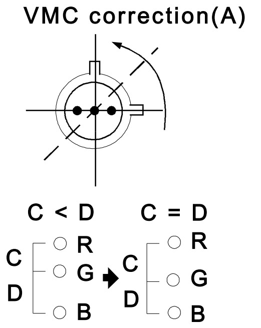
4. Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.

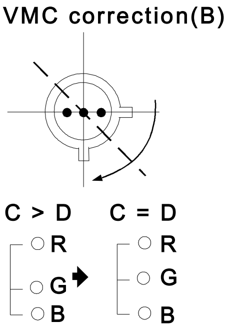
a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.


HMC correction(A)
A < B R G B
A = B R G B

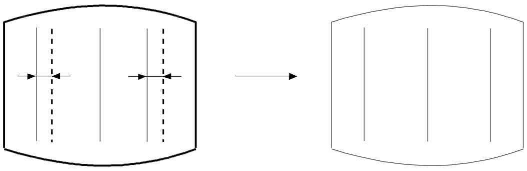

HMC correction(B)
A > B R G B
A = B R G B

b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.


VMC correction(A)
C < D
C = D
C
D
R
G
B

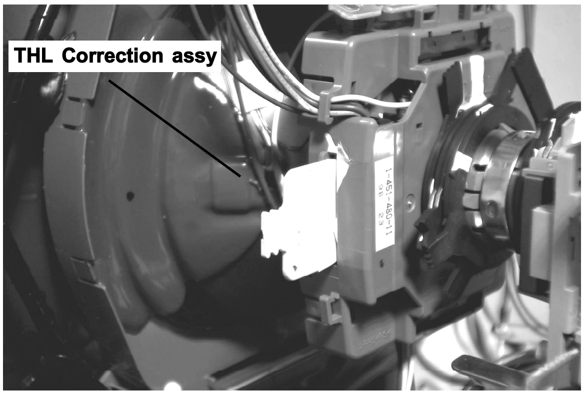

VMC correction(B)
C > D
C = D
R
G
B

HAMP Adjustment

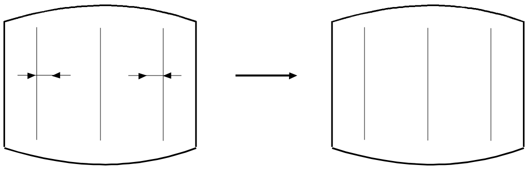


Adjust the HAMP using HAMPL and HAMPR registers in the Dynamic Convergence section of the service menu.

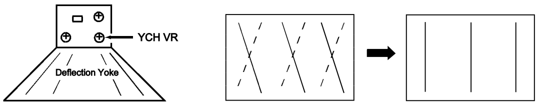
HTIL Adjustment


THL Correction assy

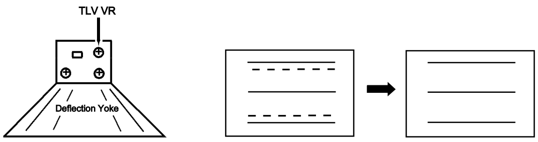
HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



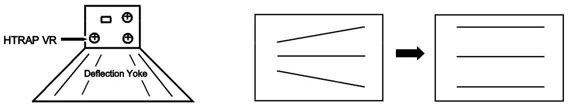
YCH Adjustment


YCH VR
Deflection Yoke

TLV Adjustment

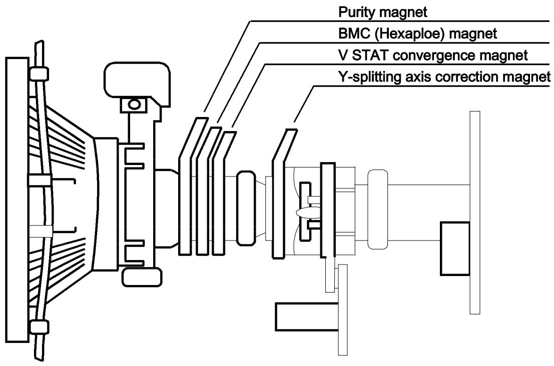

TLV VR
Deflection Yoke

H-TRAP Adjustment

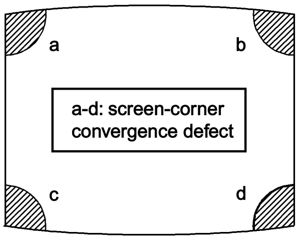

HTRAP VR
Deflection Yoke

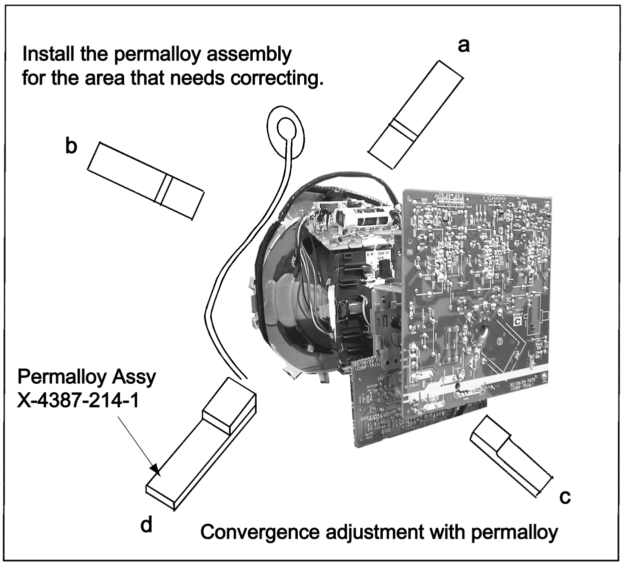
The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

Layout of each control



Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.

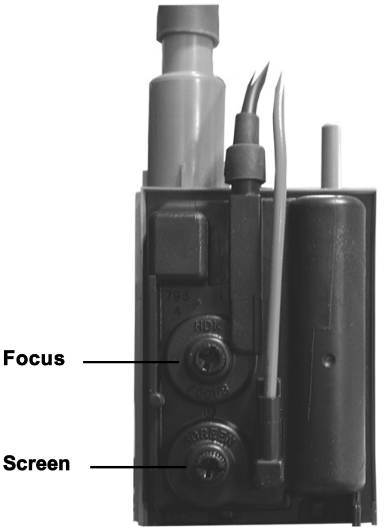



Install the permalloy assembly for the area that needs correcting.

Convergence adjustment with permalloy

3-3. Focus Adjustment

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment [RV5376]

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 165V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the flyback transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Program the Remote Commander for operation in Service Mode. [See Page 20].
3. Enter into the ‘Service Mode’ by pressing ‘VIDEO’ button twice and ‘MENU’ on the Service Commander.
4. Select ‘Service’ from the on screen menu display and press ‘Right Arrow’.
5. The ‘Service’ menu will appear on the screen.[See Page 21]
6. Set the ‘Contrast’ to MAX.
7. Set the ‘R-Drive’ to 50.
8. Adjust the ‘G-Drive’ and the ‘B-Drive’ so that the white balance becomes optimum.
9. Press the ‘OK’ button to write the data for each item.
10. Set the ‘Contrast’ to MIN.
11. Set the ‘R-Cutoff’ to 29.
12. Adjust the ‘G-Cutoff’, and the ‘B-Cutoff’ with the left and right buttons on the remote commander so that the white balance becomes optimum.
13. Press the ‘OK’ button to write the data for each item.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied remote Commander RM-934.

Programming the Remote Commander for Operation in Service Mode

STOP
MENU
REC
TV
VCR
DVD
PROGR

1. Press the VCR/TV/DVD button until the TV LED lights.

2. Press and hold the yellow button for approx. 5 seconds until the TV LED flashes quickly.

3. Press 99999. All three LED's should light.
   The remote commander is now set to Service Mode.

4. To return the remote commander to normal operation mode repeat steps 1. and 2. then press 00000. All three LED's should light.
   The remote commander is now set to normal mode.

Setting the TV into Service Mode

1. Program the remote commander for operation in Service Mode as described above.

2. Turn on the TV main power switch.

3. Press the video standby button on the remote commander twice.
   'TT __' will appear in the upper right corner of the screen.
   Other status information will also be displayed.

4. Press 'MENU' on the remote commander to obtain the following menu on the screen.

Geometry
Service
Scanrate
DAC
Dyn. Conv.
PiP
Sound
IF adjust
Error Menu

AE6B v0.14 (Jun 2001)
Factory data FFh FFh
MSP Device : MSP3411G

5. Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
6. Press the right arrow button to enter into the required menu item.
7. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note :

- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

GEOMETRY		
ABL TH	(0, 3)	0
ABL MODE	(0, 3)	0
P ABL	(0, 15)	15
V SIZE	(0, 63)	35
V POSITION	(0, 63)	33
V COMP	(0, 3)	1
V LIN	(0, 15)	7
S CORRECTION	(0, 15)	7
H SIZE	(0, 63)	44
PIN AMP	(0, 63)	32
UP CORNERPIN	(0, 63)	29
M PIN	(0, 3)	2
LO CORNERPIN	(0, 63)	29
TRAPEZIUM	(0, 15)	2
H POSITION	(0, 63)	40
AFC BOW	(0, 15)	8
AFC ANGLE	(0, 15)	9
LEFT BLK	(0, 63)	34
RIGHT BLK	(0, 63)	17
V ASPECT	(0, 63)	47
AKBTIM1	(0, 3)	2
AKBTIM2	(0, 1)	0
IKR		*1*
HNG		*0*
VNG		*0*

DYN. CONV.		
RANGE	(0, 63)	63
YupL	(0, 1)	0
VAL	(0, 63)	30
YlowL	(0, 1)	0
VAL	(0, 63)	31
MBOWupL	(0, 1)	0
VAL	(0, 63)	31
MBOWlowL	(0, 1)	0
VAL	(0, 63)	32
HAMPL	(0, 1)	0
VAL	(0, 63)	37
YupR	(0, 1)	0
VAL	(0, 63)	30
YlowR	(0, 1)	0
VAL	(0, 63)	30
MBOWupR	(0, 1)	0
VAL	(0, 63)	32
MBOWlowR	(0, 1)	0
VAL	(0, 63)	32
HAMPR	(0, 1)	0
VAL	(0, 63)	36
UP Y	(0, 1)	0
VAL	(0, 63)	31
LOW Y	(0, 1)	0
VAL	(0, 63)	33
H STAT	(0, 1)	0
VAL	(0, 63)	33
UP CORR	(0, 1)	0
VAL	(0, 63)	34
LOW CORR	(0, 1)	0
VAL	(0, 63)	19

IF ADJUST

Automute	1
Audio Gain	0
L Gating	0

SERVICE

SUB COL	(0, 63)	Adj
SUB HUE	(0, 63)	31
SUB SHARP	(0, 63)	30
SUB BRIGHT	(0, 63)	13
SUB CONT	(0, 15)	12
R-DRIVE	(0, 63)	50
G-DRIVE	(0, 63)	Adj
B-DRIVE	(0, 63)	Adj
R CUTOFF	(0, 63)	28
G CUTOFF	(0, 63)	24
B CUTOFF	(0, 63)	46
Br TXT	(0, 15)	7
Br OSD	(0, 15)	10

DAC

CONFIG		*00000000*	
MPIN CONT	(0, 255)		96
HLIN	(0, 255)		83
HTRAP	(0, 255)		127
ROT. COIL	(0, 255)		130
PHOCUS PH	(0, 255)		90

SOUND

M-N	(0, 511)		200
M-D	(-128, -1)		-20
M-S	(+0, +127)		+20
S-M	(+0, +127)		+10
D-M	(-128, -1)		-10
N-M	(0, 1023)		496
BBE	(+0, +68)		+28
B1	(-96, +96)		+0
B2	(-96, +96)		+0
B3	(-96, +96)		+0
B4	(-96, +96)		+0
B5	(-96, +96)		+0
SW L	(-128, +0)		+0
SW F	(+5, +40)		+30
NICAM C AD		10001	
NICAM Error	(0, 2047)		0
Stereo	(-128, +127)		+0
Status		0000000110	

ERROR MENU

E02	OCP	(0, 255)	0
E03	OVP	(0, 255)	0
E04	VSYNC	(0, 255)	0
E05	IKR	(0, 255)	0
E06	IIC	(0, 255)	0
E07	NVM	(0, 255)	0
E08	HPROT	(0, 255)	0
E09	TUNER	(0, 255)	0
E10	SOUNDP	(0, 255)	0
E11	-	(0, 255)	0
E12	SCANRATE	(0, 255)	0
E13	DAC	(0, 255)	0
E14	BACKEND	(0, 255)	0
E15	DYN CON	(0, 255)	0
E16	PIP	(0, 255)	0

WORKING TIME

HOURS	14
MINUTES	7

Sub Brightness Adjustment

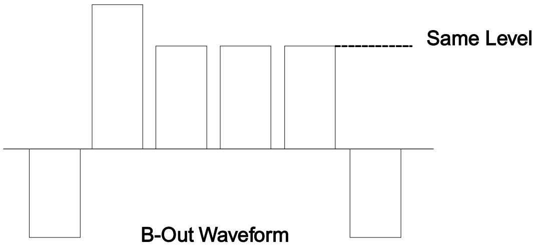
1. Input a Monoscope pattern.
2. Program the Remote Commander for operation in Service Mode. [See Page 20].
3. Press ‘VIDEO’ ‘VIDEO’ 13 on the Remote Commander.
4. Adjust the ‘Sub-Brightness’ data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

Sub Contrast Adjustment

1. Input a video signal that contains a small 100% white area on a black background.
2. Connect an digital voltmeter to Pin 10 of J7378 [C Board].
3. Program the Remote Commander for operation in Service Mode. [See Page 20].
4. Adjust the Sub-Contrast [Using ‘VIDEO’ ‘VIDEO’ ‘11’] to obtain a voltage of 105 +/- 5V.

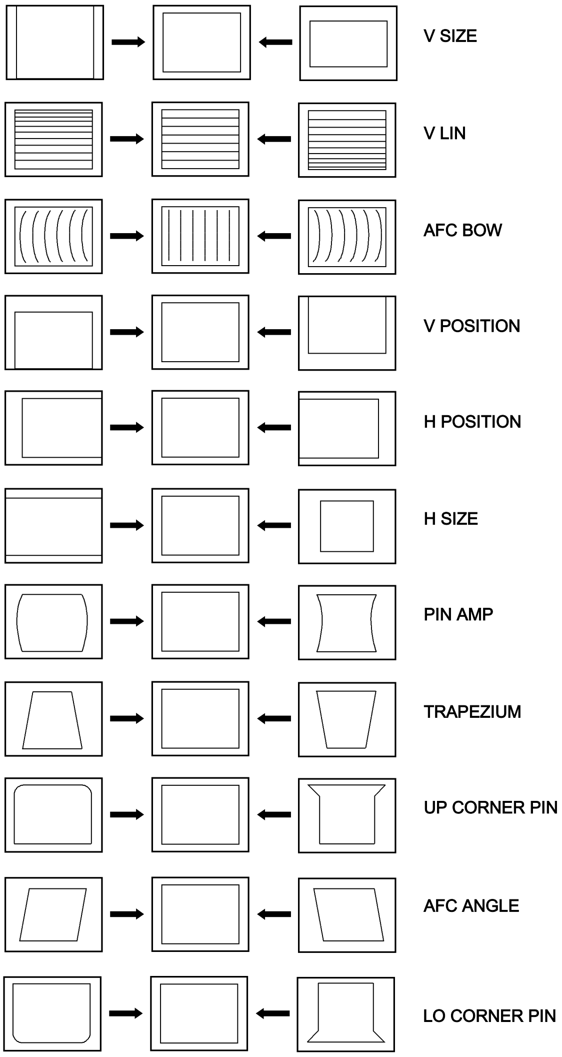
Sub Colour Adjustment

1. Receive a PAL colour bar signal.
2. Connect an oscilloscope to Pin 6 of CN7001 [A Board].
3. Program the Remote Commander for operation in Service Mode. [See Page 20].
4. Adjust the ‘Sub Colour’ [Using ‘VIDEO’ ‘VIDEO’ ‘12’] so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.



Deflection System Adjustment

1. Program the Remote Commander for operation in Service Mode. [See Page 20] and enter into the 'Geometry' service menu.
2. Select and adjust each item in order to obtain the optimum image.



GEOMETRY

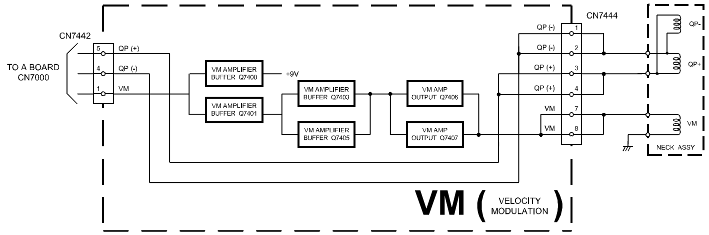
ABL TH	(0, 3)	0
ABL MODE	(0, 3)	0
P ABL	(0, 15)	15
V SIZE	(0, 63)	35
V POSITION	(0, 63)	33
V COMP	(0, 3)	1
V LIN	(0, 15)	7
S CORRECTION	(0, 15)	7
H SIZE	(0, 63)	44
PIN AMP	(0, 63)	32
UP CORNERPIN	(0, 63)	29
M PIN	(0, 3)	2
LO CORNERPIN	(0, 63)	29
TRAPEZIUM	(0, 15)	2
H POSITION	(0, 63)	40
AFC BOW	(0, 15)	8
AFC ANGLE	(0, 15)	9
LEFT BLK	(0, 63)	34
RIGHT BLK	(0, 63)	17
V ASPECT	(0, 63)	47
AKBTIM1	(0, 3)	2
AKBTIM2	(0, 1)	0
IKR		*1*
HNG		*0*
VNG		*0*

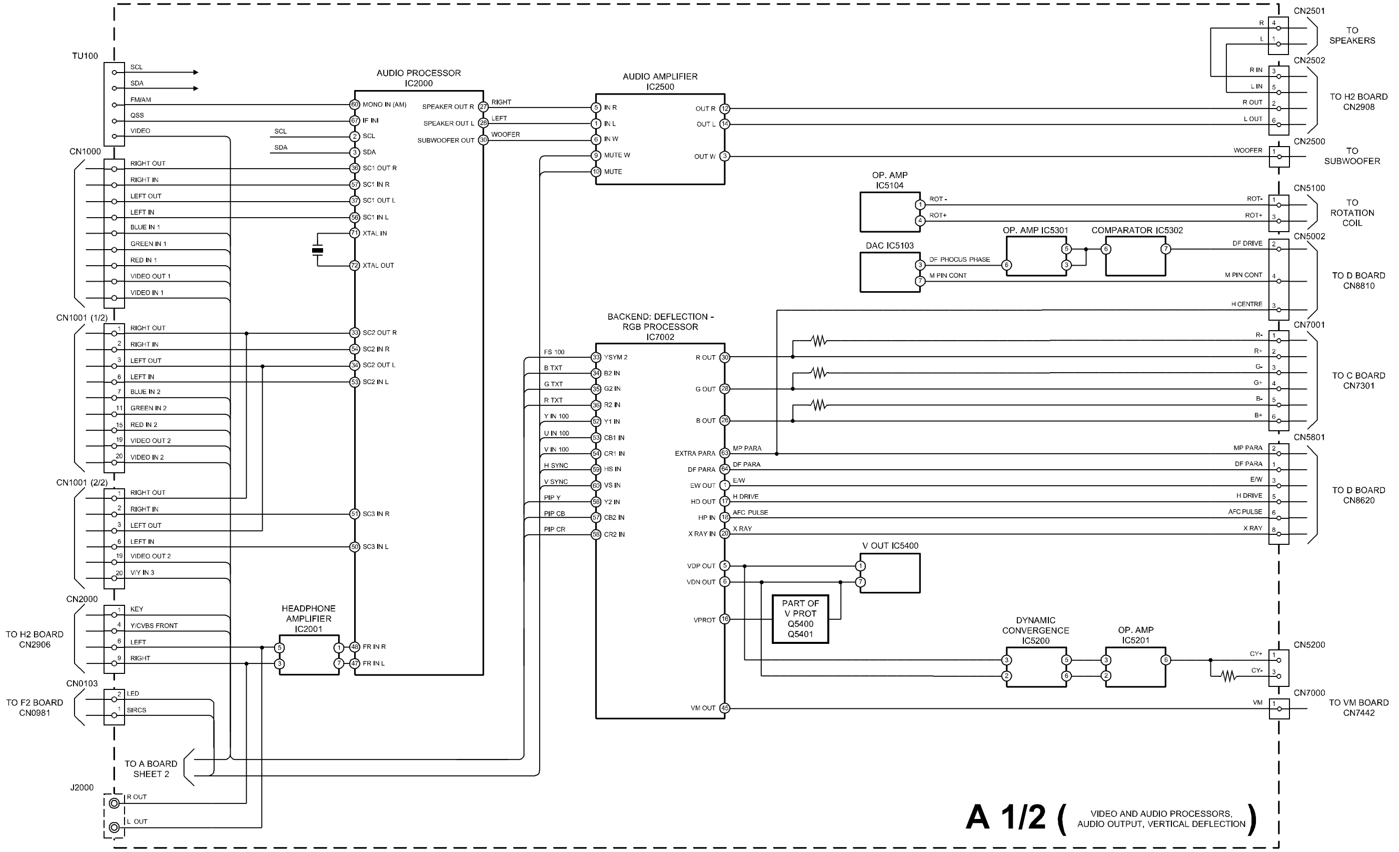
4-3. TEST MODE 2:

Test Mode 2 is available by rogramming the Remote Commander for operation in Service Mode [As shown on Page 20] then pressing the 'VIDEO' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 00, 10, 20 ... twice or switch the TV set into Stand-by mode. In 'TT Menu' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

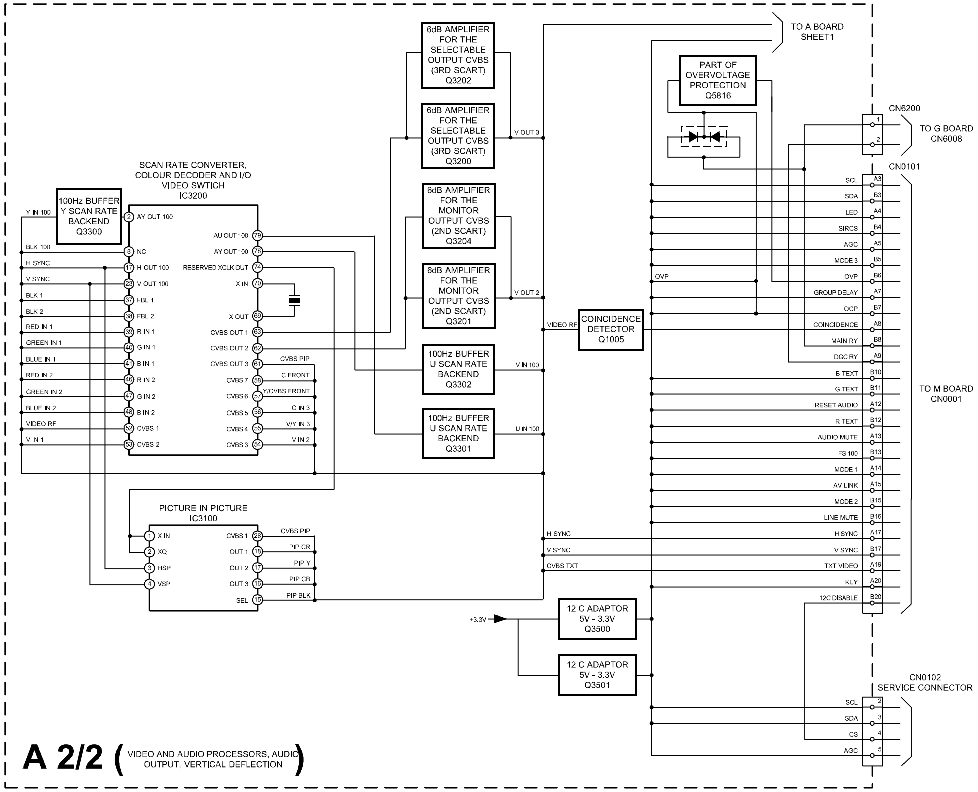
00	'TT' mode off
01	Picture maximum
02	Picture minimum
03	Set speaker/headphone Volume to 35%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode
08	Shipping Condition
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub Brightness adjustment
14	Text H Position adjustment
15	Rotation Coil Test
16	Picture level 50%
19	Factory Mode Enable/Disable
21	Destination ADEKR
22	Destination BL
23	Destination ADEKR
24	Destination U
25	Destination ADEKR
26	Destination BL
27	Destination ADEKR
28	Destination ADEKR
31	Auto Shutoff Enable/Disable
36	Velocity Modulation (VM) OFF/ON test
41	Re-initialise NVM
43	Select Dual A sound
44	Select Dual B sound
45	Select Mono sound
46	Select Stereo sound
48	Set NVM as non virgin
49	Set NVM as virgin
53	FM Overmodulation Enable/Disable
55	Tuner selection (SONY/ALPS)
59	Select Model 3 Scarts + PIP or 2 Scarts
68	Enable/Disable X26 countermeasure (N problem)
73	Enable Zweiton D/K2 system (6.5/6.74)
74	Enable Zweiton D/K3 system (6.5/5.74)
78	Balance full right
79	Balance full left
87	Local keys test
99	Display Error and Working Time menu

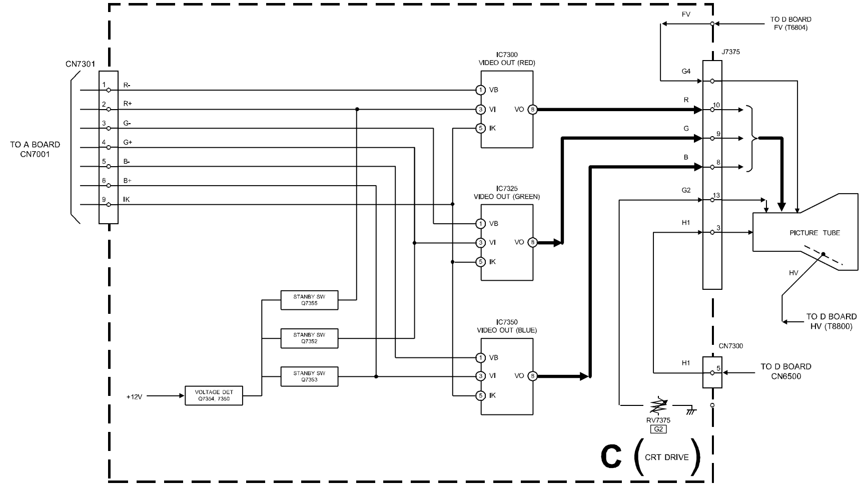
5-1. BLOCK DIAGRAMS (1)

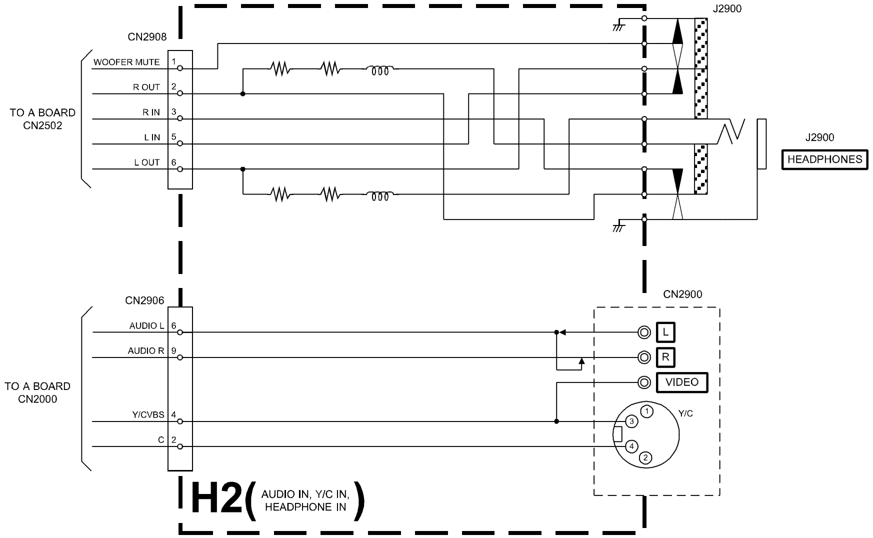

CN7442
TO A BOARD CN7000
5 QP (+)
4 QP (-)
1 VM
VM AMPLIFIER BUFFER Q7400
VM AMPLIFIER BUFFER Q7401
+9V
VM AMPLIFIER BUFFER Q7403
VM AMPLIFIER BUFFER Q7405
VM AMP OUTPUT Q7406
VM AMP OUTPUT Q7407
CN7444
QP (-) 1
QP (-) 2
QP (+) 3
QP (+) 4
VM 7
VM 8
QP-
QP+
VM
NECK ASSY
VM (VELOCITY MODULATION)

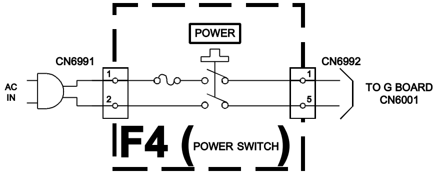

TU100
SCL
SDA
FM/AM
QSS
VIDEO
CN1000
RIGHT OUT
RIGHT IN
LEFT OUT
LEFT IN
BLUE IN 1
GREEN IN 1
RED IN 1
VIDEO OUT 1
VIDEO IN 1
CN1001 (1/2)
1 RIGHT OUT
2 RIGHT IN
3 LEFT OUT
6 LEFT IN
7 BLUE IN 2
11 GREEN IN 2
15 RED IN 2
19 VIDEO OUT 2
20 VIDEO IN 2
CN1001 (2/2)
1 RIGHT OUT
2 RIGHT IN
3 LEFT OUT
6 LEFT IN
19 VIDEO OUT 2
20 V/Y IN 3
CN2000
TO H2 BOARD CN2906
1 KEY
4 Y/CVBS FRONT
6 LEFT
9 RIGHT
CN0103
TO F2 BOARD CN0981
2 LED
1 SIRCS
TO A BOARD SHEET 2
J2000
R OUT
L OUT
AUDIO PROCESSOR IC2000
60 MONO IN (AM)
67 IF INI
SCL 2 SCL
SDA 3 SDA
36 SC1 OUT R
57 SC1 IN R
37 SC1 OUT L
56 SC1 IN L
71 XTAL IN
72 XTAL OUT
33 SC2 OUT R
54 SC2 IN R
34 SC2 OUT L
53 SC2 IN L
51 SC3 IN R
50 SC3 IN L
48 FR IN R
47 FR IN L
SPEAKER OUT R 27 RIGHT
SPEAKER OUT L 28 LEFT
SUBWOOFER OUT 30 WOOFER
HEADPHONE AMPLIFIER IC2001
5
3
1
7
AUDIO AMPLIFIER IC2500
5 IN R
1 IN L
6 IN W
9 MUTE W
10 MUTE
OUT R 12
OUT L 14
OUT W 3
BACKEND: DEFLECTION - RGB PROCESSOR IC7002
FS 100 33 YSYM 2
B TXT 34 B2 IN
G TXT 35 G2 IN
R TXT 36 R2 IN
Y IN 100 52 Y1 IN
U IN 100 53 CB1 IN
V IN 100 54 CR1 IN
H SYNC 59 HS IN
V SYNC 60 VS IN
PIP Y 56 Y2 IN
PIP CB 57 CB2 IN
PIP CR 58 CR2 IN
R OUT 30
G OUT 28
B OUT 26
EXTRA PARA 63 MP PARA
DF PARA 64 DF PARA
EW OUT 1 E/W
HD OUT 17 H DRIVE
HP IN 18 AFC PULSE
X RAY IN 20 X RAY
VDP OUT 5
VDN OUT 6
VPROT 16
VM OUT 45
OP. AMP IC5104
1 ROT -
4 ROT+
DAC IC5103
3 DF PHOCUS PHASE
7 M PIN CONT
OP. AMP IC5301
COMPARATOR IC5302
V OUT IC5400
PART OF V PROT Q5400 Q5401
DYNAMIC CONVERGENCE IC5200
OP. AMP IC5201
CN2501
R 4
L 1
TO SPEAKERS
CN2502
R IN 3
L IN 5
R OUT 2
L OUT 6
TO H2 BOARD CN2908
CN2500
WOOFER 1
TO SUBWOOFER
CN5100
ROT- 1
ROT+ 3
TO ROTATION COIL
CN5002
DF DRIVE 2
M PIN CONT 4
H CENTRE 3
TO D BOARD CN8810
CN7001
R- 1
R+ 2
G- 3
G+ 4
B- 5
B+ 6
TO C BOARD CN7301
CN5801
MP PARA 2
DF PARA 1
E/W 3
H DRIVE 5
AFC PULSE 6
X RAY 8
TO D BOARD CN8620
CN5200
CY+ 1
CY- 3
CN7000
VM 1
TO VM BOARD CN7442
A 1/2 (VIDEO AND AUDIO PROCESSORS, AUDIO OUTPUT, VERTICAL DEFLECTION)

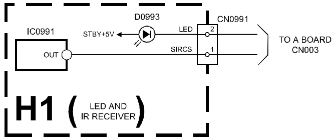
5-1. BLOCK DIAGRAMS (2)


A 2/2 (VIDEO AND AUDIO PROCESSORS, AUDIO OUTPUT, VERTICAL DEFLECTION)
SCAN RATE CONVERTER, COLOUR DECODER AND I/O VIDEO SWTICH IC3200
100Hz BUFFER Y SCAN RATE BACKEND Q3300
Y IN 100
BLK 100
H SYNC
V SYNC
BLK 1
BLK 2
RED IN 1
GREEN IN 1
BLUE IN 1
RED IN 2
GREEN IN 2
BLUE IN 2
VIDEO RF
V IN 1
2 AY OUT 100
8 NC
17 H OUT 100
23 V OUT 100
37 FBL 1
38 FBL 2
39 R IN 1
40 G IN 1
41 B IN 1
46 R IN 2
47 G IN 2
48 B IN 2
52 CVBS 1
53 CVBS 2
AU OUT 100 79
AY OUT 100 76
RESERVED XCLK OUT 74
X IN 70
X OUT 69
CVBS OUT 1 63
CVBS OUT 2 62
CVBS OUT 3 61
CVBS 7 58
CVBS 6 57
CVBS 5 56
CVBS 4 55
CVBS 3 54
CVBS PIP
C FRONT
Y/CVBS FRONT
C IN 3
V/Y IN 3
V IN 2
6dB AMPLIFIER FOR THE SELECTABLE OUTPUT CVBS (3RD SCART) Q3202
6dB AMPLIFIER FOR THE SELECTABLE OUTPUT CVBS (3RD SCART) Q3200
6dB AMPLIFIER FOR THE MONITOR OUTPUT CVBS (2ND SCART) Q3204
6dB AMPLIFIER FOR THE MONITOR OUTPUT CVBS (2ND SCART) Q3201
V OUT 3
V OUT 2
100Hz BUFFER U SCAN RATE BACKEND Q3302
V IN 100
100Hz BUFFER U SCAN RATE BACKEND Q3301
U IN 100
VIDEO RF
COINCIDENCE DETECTOR Q1005
PART OF OVERVOLTAGE PROTECTION Q5816
OVP
TO A BOARD SHEET1
CN6200
TO G BOARD CN6008
CN0101
SCL A3
SDA B3
LED A4
SIRCS B4
AGC A5
MODE 3 B5
OVP B6
GROUP DELAY A7
OCP B7
COINCIDENCE A8
MAIN RY B8
DGC RY A9
B TEXT B10
G TEXT B11
RESET AUDIO A12
R TEXT B12
AUDIO MUTE A13
FS 100 B13
MODE 1 A14
AV LINK A15
MODE 2 B15
LINE MUTE B16
H SYNC A17
V SYNC B17
TXT VIDEO A19
KEY A20
12C DISABLE B20
TO M BOARD CN0001
PICTURE IN PICTURE IC3100
1 X IN
2 XQ
3 HSP
4 VSP
CVBS 1 28
OUT 1 18
OUT 2 17
OUT 3 16
SEL 15
CVBS PIP
PIP CR
PIP Y
PIP CB
PIP BLK
H SYNC
V SYNC
CVBS TXT
+3.3V
12 C ADAPTOR 5V - 3.3V Q3500
12 C ADAPTOR 5V - 3.3V Q3501
CN0102 SERVICE CONNECTOR
SCL 2
SDA 3
CS 4
AGC 5

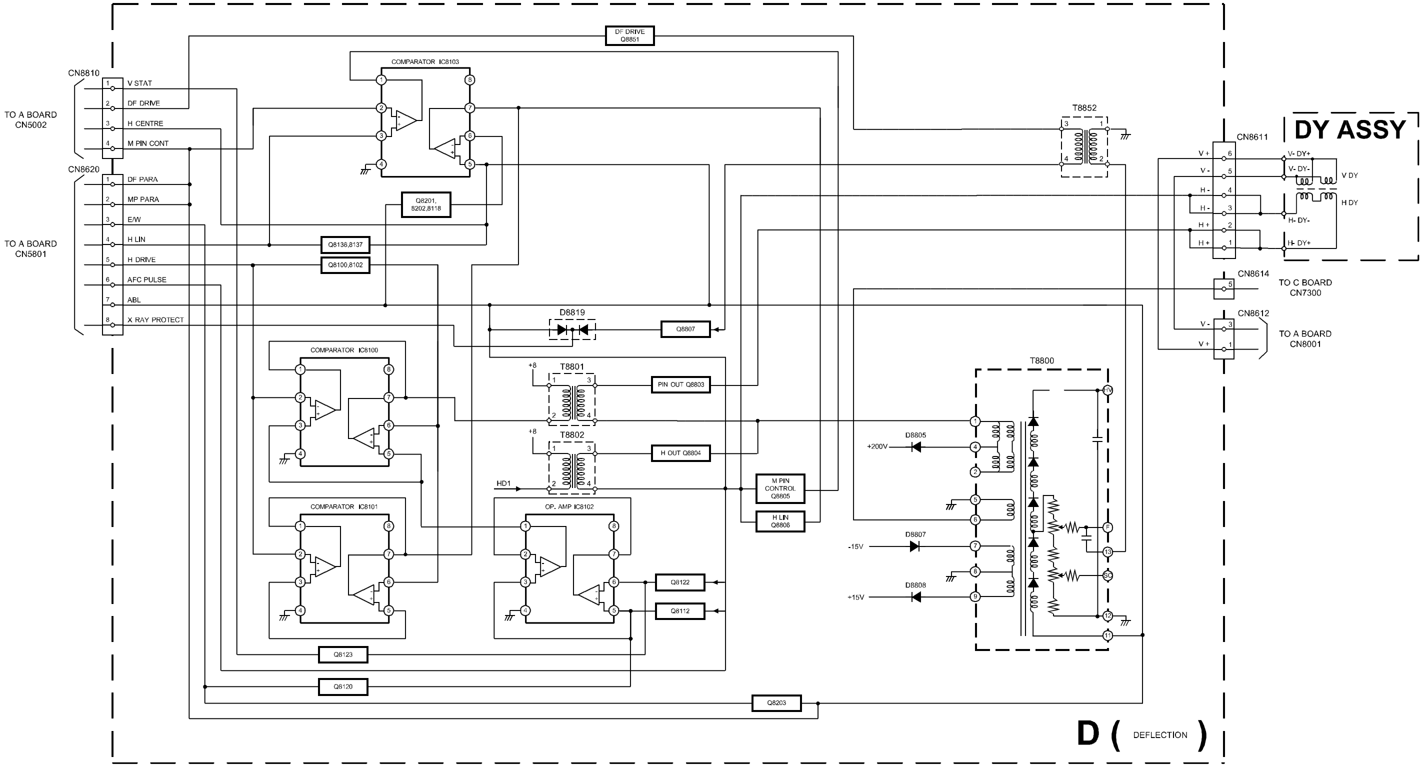

C (CRT DRIVE)
CN7301
TO A BOARD CN7001
1 R-
2 R+
3 G-
4 G+
5 B-
6 B+
9 IK
IC7300 VIDEO OUT (RED)
IC7325 VIDEO OUT (GREEN)
IC7350 VIDEO OUT (BLUE)
1 VB
3 VI
5 IK
VO 8
STANBY SW Q7355
STANBY SW Q7352
STANBY SW Q7353
+12V
VOLTAGE DET Q7354, 7350
FV
TO D BOARD FV (T6804)
J7375
G4
R 10
G 9
B 8
G2 13
H1 3
PICTURE TUBE
HV
TO D BOARD HV (T8800)
CN7300
H1 5
TO D BOARD CN6500
RV7375
G2


H2 (AUDIO IN, Y/C IN, HEADPHONE IN)
CN2908
TO A BOARD CN2502
WOOFER MUTE 1
R OUT 2
R IN 3
L IN 5
L OUT 6
J2900
J2900
HEADPHONES
CN2906
TO A BOARD CN2000
AUDIO L 6
AUDIO R 9
Y/CVBS 4
C 2
CN2900
L
R
VIDEO
Y/C
1
2
3
4

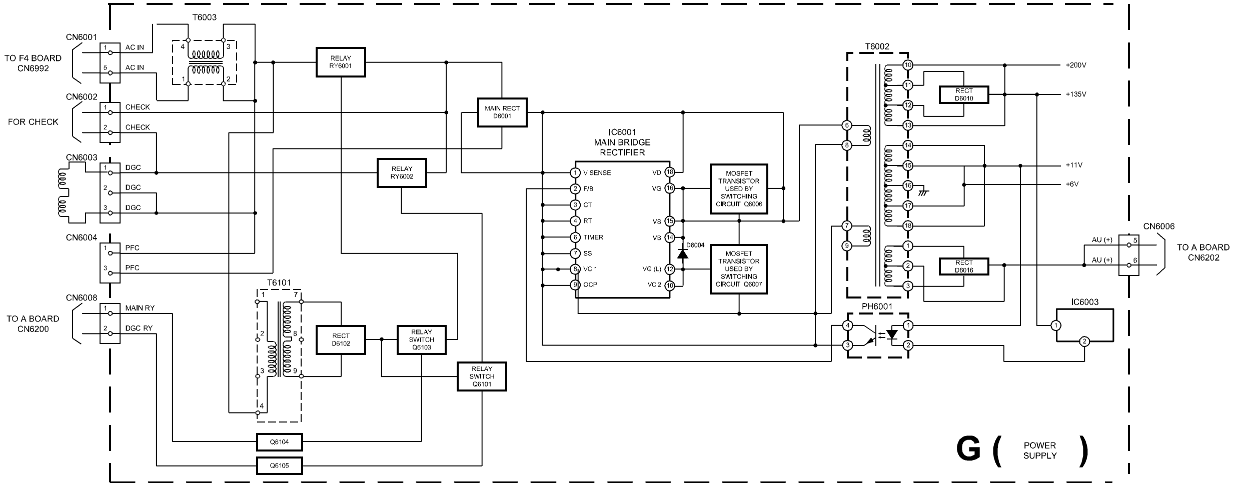

F4 (POWER SWITCH)
POWER
CN6991
AC IN
1
2
CN6992
1
5
TO G BOARD CN6001


H1 (LED AND IR RECEIVER)
IC0991
OUT
STBY+5V
D0993
LED
SIRCS
CN0991
2
1
TO A BOARD CN003

5-1. BLOCK DIAGRAMS (3)

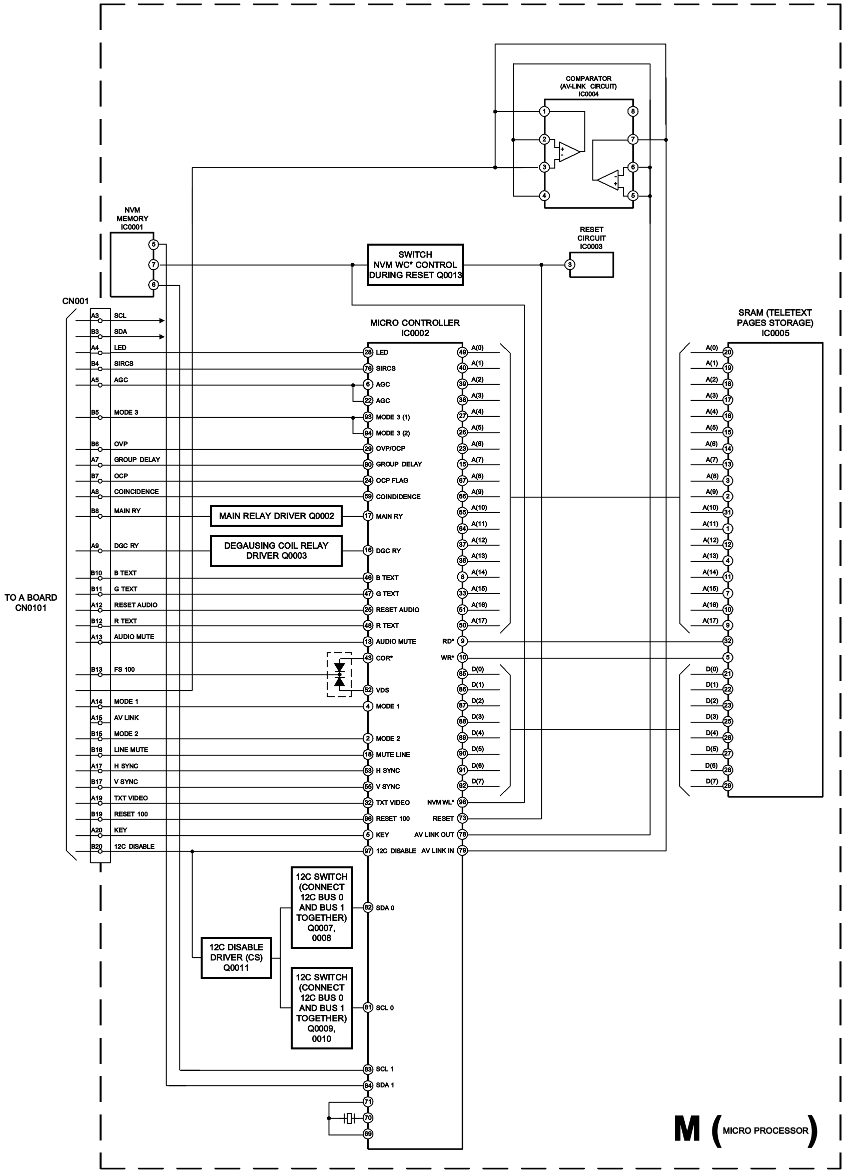


CN8810
TO A BOARD
CN5002
V STAT
DF DRIVE
H CENTRE
M PIN CONT
CN8620
TO A BOARD
CN5801
DF PARA
MP PARA
E/W
H LIN
H DRIVE
AFC PULSE
ABL
X RAY PROTECT
DF DRIVE
Q8851
COMPARATOR IC8103
Q8201,
8202,8118
Q8136,8137
Q8100,8102
D8819
Q8807
T8852
CN8611
DY ASSY
V +
V -
H -
H -
H +
H +
V- DY+
V- DY-
V DY
H DY
H- DY-
H- DY+
CN8614
TO C BOARD
CN7300
CN8612
V -
V +
TO A BOARD
CN8001
COMPARATOR IC8100
+8
T8801
PIN OUT Q8803
+8
T8802
H OUT Q8804
HD1
M PIN
CONTROL
Q8805
H LIN
Q8806
COMPARATOR IC8101
OP. AMP IC8102
Q8122
Q8112
Q8123
Q8120
Q8203
T8800
D8805
+200V
D8807
-15V
D8808
+15V
HV
F
SC
D (DEFLECTION)

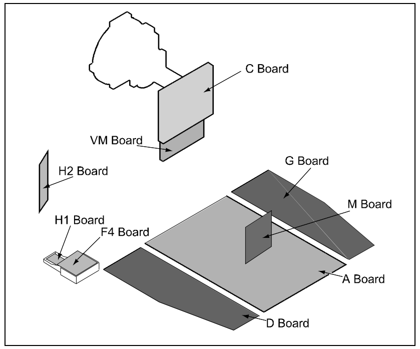


CN6001
TO F4 BOARD
CN6992
AC IN
AC IN
T6003
CN6002
FOR CHECK
CHECK
CHECK
CN6003
DGC
DGC
DGC
CN6004
PFC
PFC
CN6008
TO A BOARD
CN6200
MAIN RY
DGC RY
RELAY
RY6001
RELAY
RY6002
MAIN RECT
D6001
T6101
RECT
D6102
RELAY
SWITCH
Q6103
RELAY
SWITCH
Q6101
Q6104
Q6105
IC6001
MAIN BRIDGE
RECTIFIER
V SENSE
F/B
CT
RT
TIMER
SS
VC 1
OCP
VD
VG
VS
VB
VG (L)
VC 2
D6004
MOSFET
TRANSISTOR
USED BY
SWITCHING
CIRCUIT Q6006
MOSFET
TRANSISTOR
USED BY
SWITCHING
CIRCUIT Q6007
T6002
RECT
D6010
RECT
D6016
+200V
+135V
+11V
+6V
PH6001
IC6003
CN6006
AU (+)
AU (+)
TO A BOARD
CN6202
G (POWER SUPPLY)

5-1. BLOCK DIAGRAMS (4)


NVM MEMORY IC0001
5
7
6
CN001
TO A BOARD CN0101
A3 SCL
B3 SDA
A4 LED
B4 SIRCS
A5 AGC
B5 MODE 3
B6 OVP
A7 GROUP DELAY
B7 OCP
A8 COINCIDENCE
B8 MAIN RY
A9 DGC RY
B10 B TEXT
B11 G TEXT
A12 RESET AUDIO
B12 R TEXT
A13 AUDIO MUTE
B13 FS 100
A14 MODE 1
A15 AV LINK
B15 MODE 2
B16 LINE MUTE
A17 H SYNC
B17 V SYNC
A19 TXT VIDEO
B19 RESET 100
A20 KEY
B20 12C DISABLE
SWITCH NVM WC* CONTROL DURING RESET Q0013
COMPARATOR (AV-LINK CIRCUIT) IC0004
RESET CIRCUIT IC0003
MICRO CONTROLLER IC0002
28 LED
76 SIRCS
6 AGC
22 AGC
93 MODE 3 (1)
94 MODE 3 (2)
29 OVP/OCP
80 GROUP DELAY
24 OCP FLAG
59 COINDIDENCE
17 MAIN RY
16 DGC RY
46 B TEXT
47 G TEXT
25 RESET AUDIO
48 R TEXT
13 AUDIO MUTE
43 COR*
52 VDS
4 MODE 1
2 MODE 2
18 MUTE LINE
53 H SYNC
55 V SYNC
32 TXT VIDEO
96 RESET 100
5 KEY
97 12C DISABLE
82 SDA 0
81 SCL 0
83 SCL 1
84 SDA 1
71
70
69
49 A(0)
40 A(1)
39 A(2)
38 A(3)
27 A(4)
26 A(5)
23 A(6)
15 A(7)
67 A(8)
66 A(9)
65 A(10)
64 A(11)
37 A(12)
36 A(13)
8 A(14)
33 A(15)
51 A(16)
50 A(17)
RD* 9
WR* 10
85 D(0)
86 D(1)
87 D(2)
88 D(3)
89 D(4)
90 D(5)
91 D(6)
92 D(7)
NVM WL* 98
RESET 73
AV LINK OUT 78
AV LINK IN 79
MAIN RELAY DRIVER Q0002
DEGAUSING COIL RELAY DRIVER Q0003
12C SWITCH (CONNECT 12C BUS 0 AND BUS 1 TOGETHER) Q0007, 0008
12C DISABLE DRIVER (CS) Q0011
12C SWITCH (CONNECT 12C BUS 0 AND BUS 1 TOGETHER) Q0009, 0010
SRAM (TELETEXT PAGES STORAGE) IC0005
A(0) 20
A(1) 19
A(2) 18
A(3) 17
A(4) 16
A(5) 15
A(6) 14
A(7) 13
A(8) 3
A(9) 2
A(10) 31
A(11) 1
A(12) 12
A(13) 4
A(14) 11
A(15) 7
A(16) 10
A(17) 9
32
5
D(0) 21
D(1) 22
D(2) 23
D(3) 25
D(4) 26
D(5) 27
D(6) 28
D(7) 29
M (MICRO PROCESSOR)

5-2. CIRCUIT BOARD LOCATION


C Board
VM Board
H2 Board
G Board
M Board
H1 Board
F4 Board
A Board
D Board

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted.
- pF : μμF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W

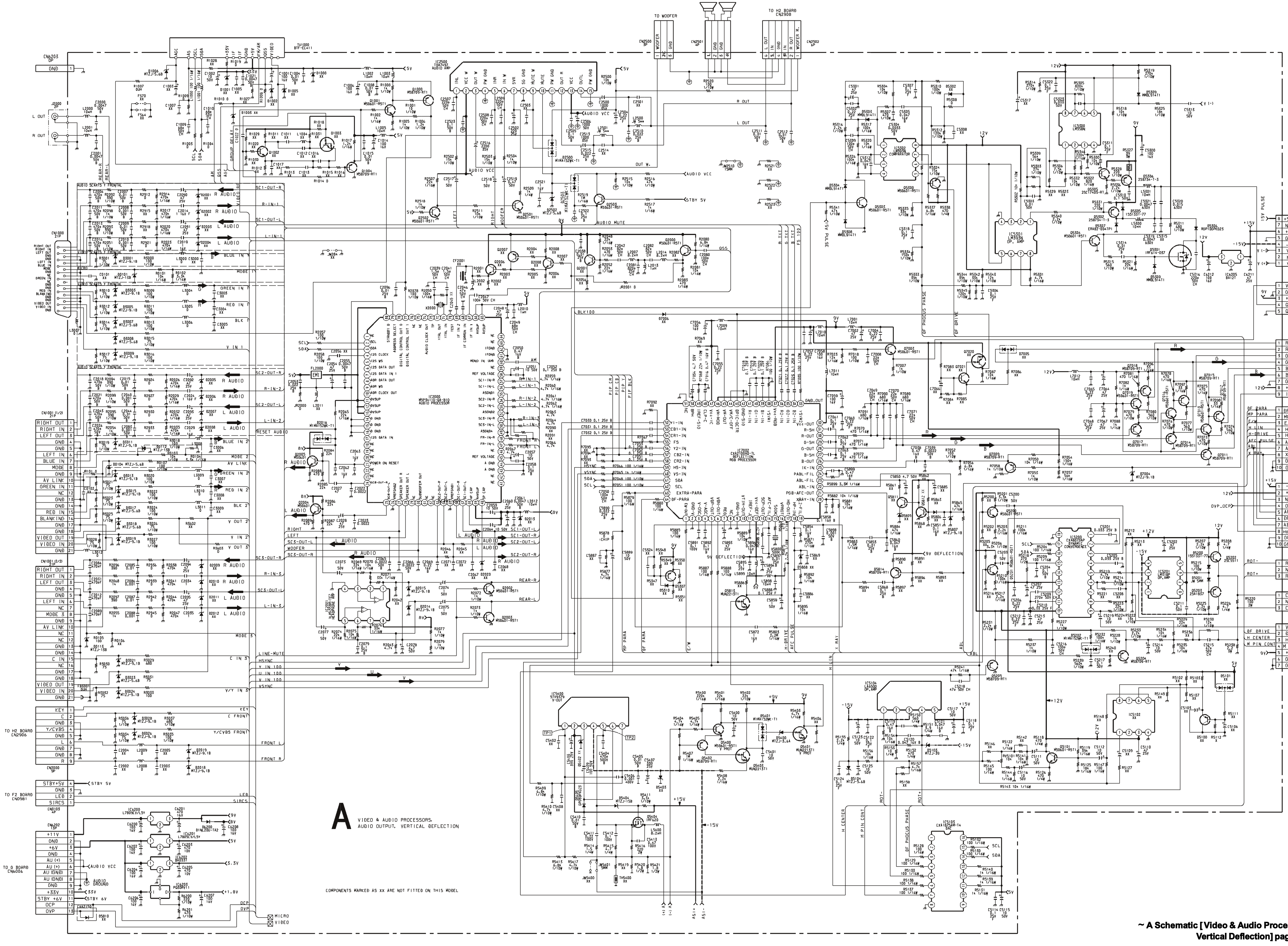
- Chip resistors are 1/10W
- All resistors are in ohms.
  k = 1000 ohms, M = 1000,000 ohms
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- ▭ : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.
- ━━ [illegible]
- ‒ ‒ ‒ : B - bus.
- ➡ : RF signal path.
- ⊥ : earth - ground.
- : earth - chassis.

Reference Information

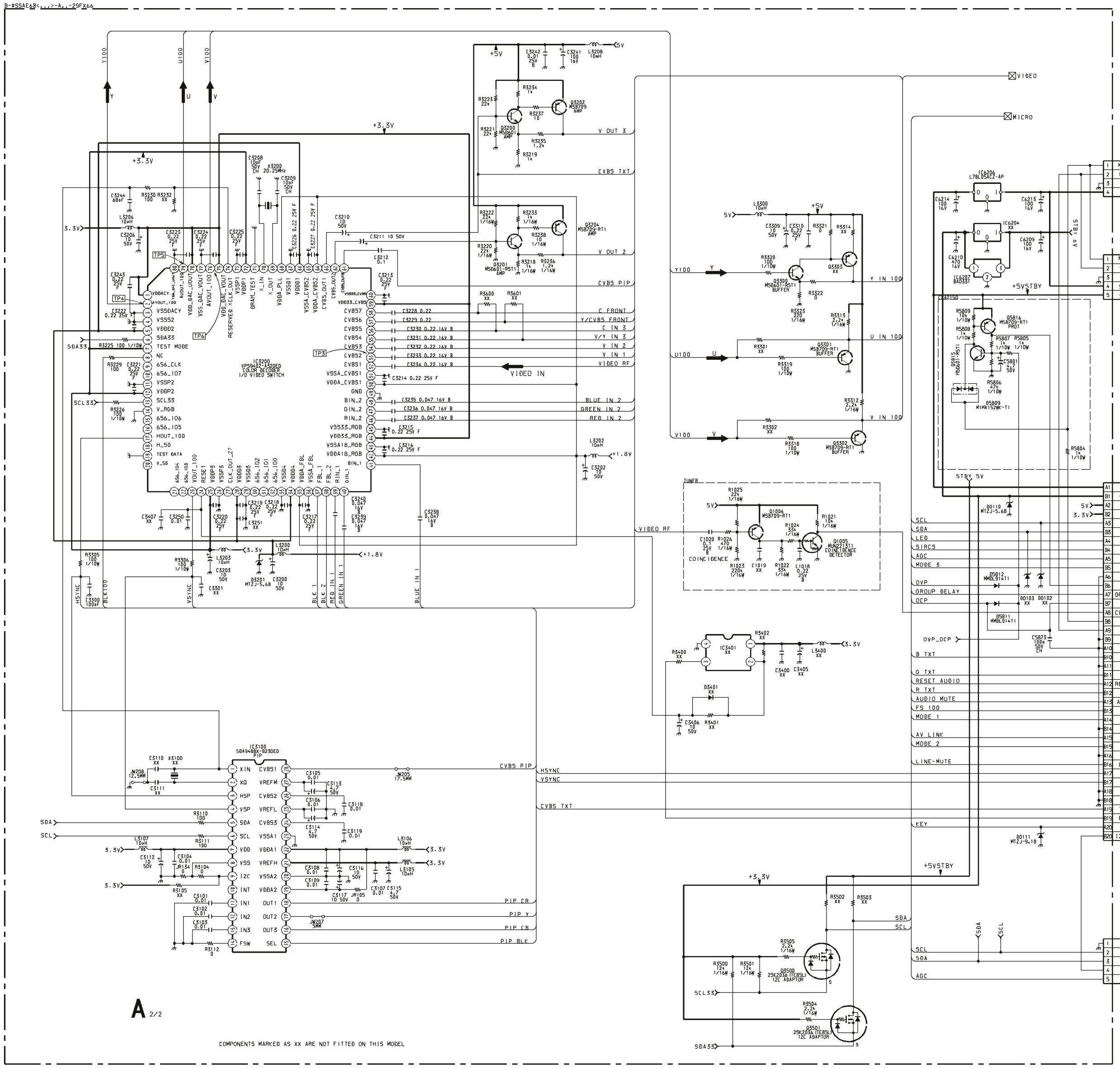
RESISTOR	**RN**	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
	✣	: ADJUSTMENT RESISTOR
COIL	**LF-8L**	: MICRO INDUCTOR
CAPACITOR	**TA**	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

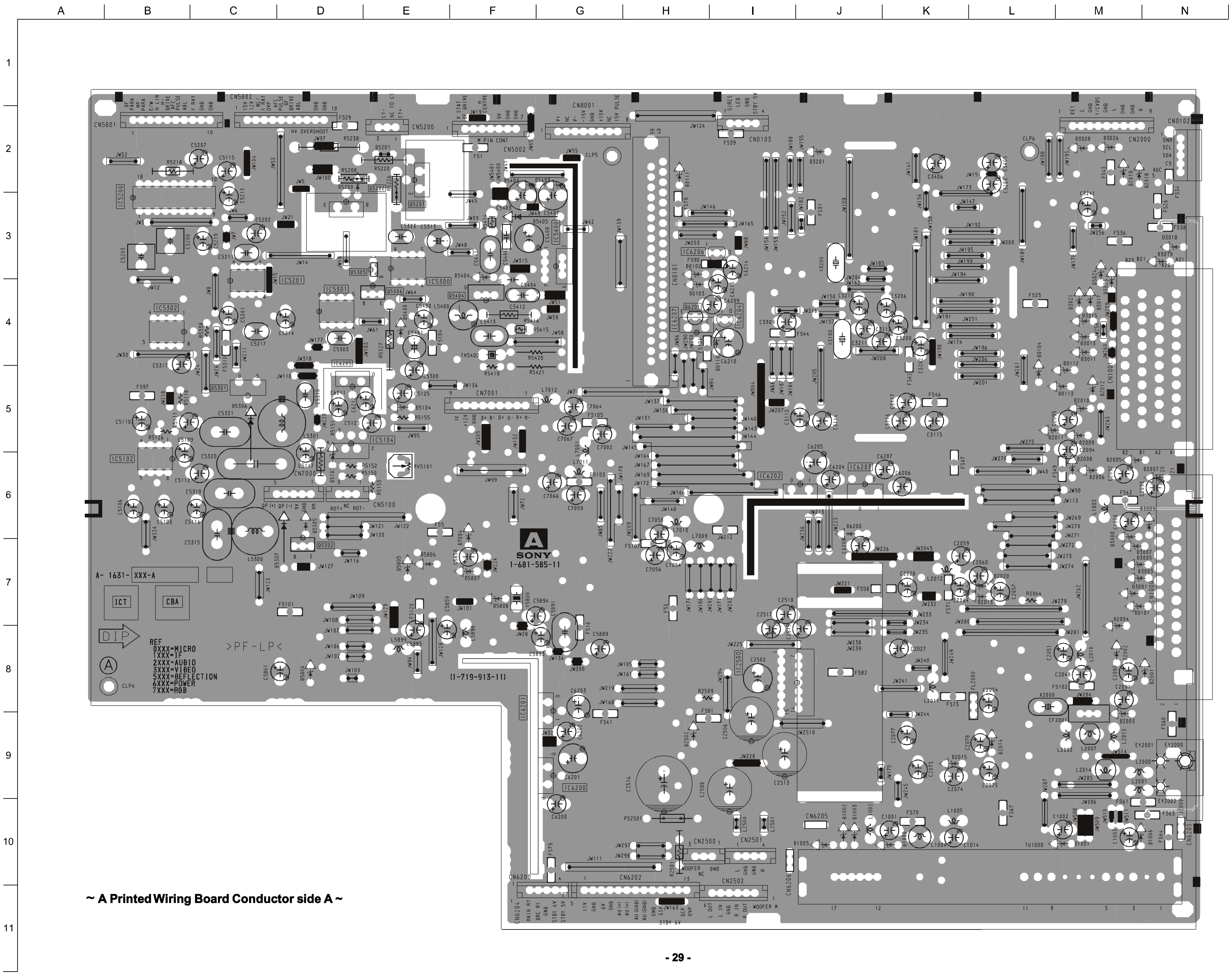

A
VIDEO & AUDIO PROCESSORS, AUDIO OUTPUT, VERTICAL DEFLECTION
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
TO WOOFER
TO H2 BOARD
TO H2 BOARD CN2906
TO F2 BOARD CN0981
TO D BOARD CN6006
TO D BOARD CN8612
TO VM BOARD CN7442
TO C BOARD CN7301
TO D BOARD CN8620
TO ROT COIL
TO D BOARD CN8810
IC2000 MSP3410-QA-B10 AUDIO PROCESSOR
IC2500 TDA7490 AUDIO AMP
IC7003 CXA2150AQ-TL DEFLECTION RGB PROCESSOR
IC5200 CXA8070AP DYNAMIC CONVERGENCE
MICRO
VIDEO

~ A Schematic [Video & Audio Processors, Audio Output, Vertical Deflection] page 1/2~

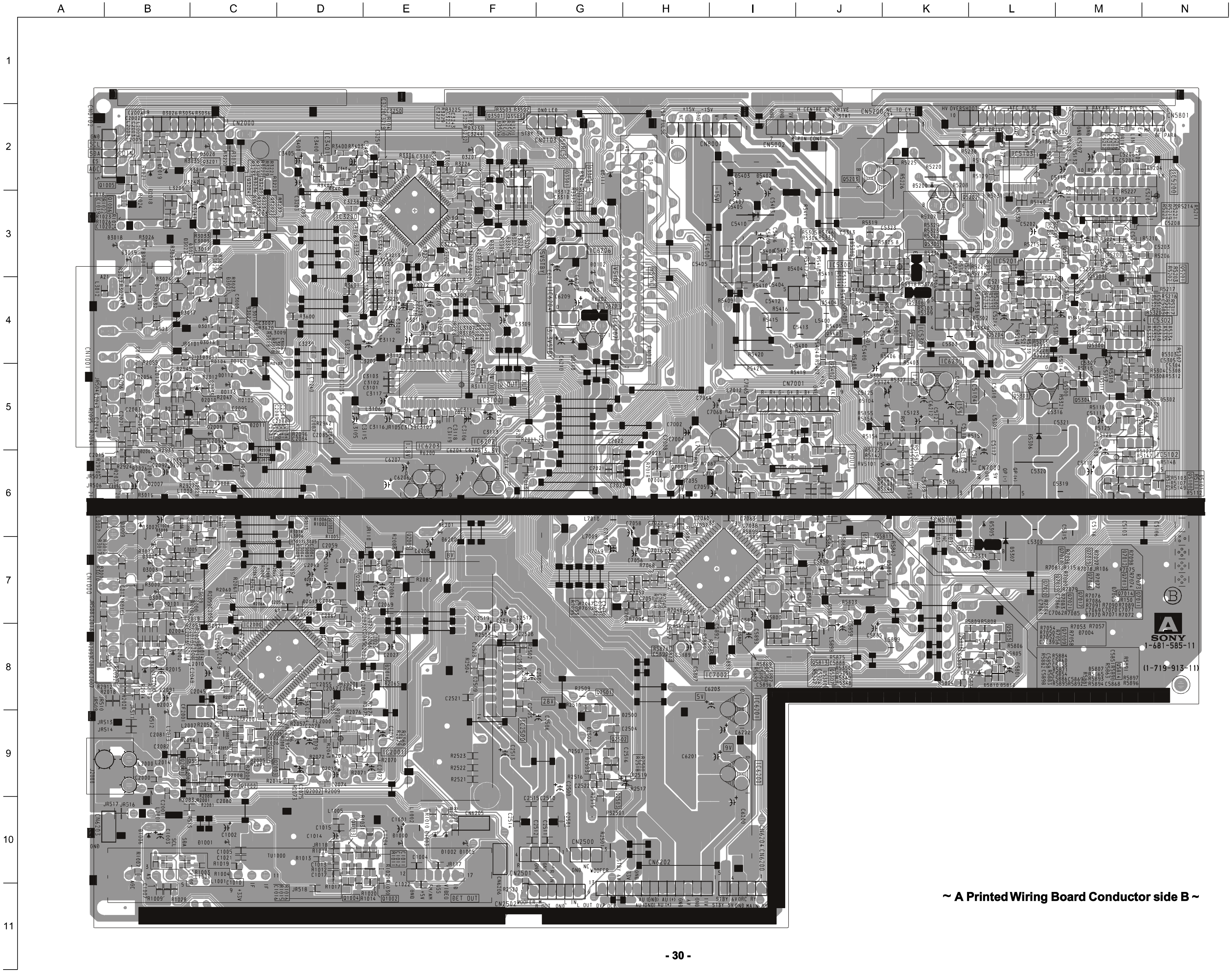

IC3200
VPS9431-A2-D6
COLOR DECODER
I/O VIDEO SWITCH
IC5100
SDA9488X-B2S0EG
PIP
IC6204
L78L05ACZ-AP
CN6200
4P
MAIN RY
DOC RY
GND
STBY+6V
TO D BOARD
CN6008
CN6204
MAIN RY
DOC RY
GND
STBY+6V
STBY+5V
+5VSTBY
CN0101
40P
TO M BOARD
CN0001
STBY +5V
+3.3V-STB
+5V
+3.3V
SCL
SDA
LED
SIRCS
AGC
MODE 3
GND
OVP
GROUP DELAY
OCP
COINCIDENCE
MAIN RY
DOC RY
GND
B-TXT
G-TXT
RESET AUDIO
R-TXT
AUDIO MUTE
FS 100
MODE1
AV-LINK
MODE 2
LINE-MUTE
HSYNC
VSYNC
TXT VIDEO
RESET 100
KEY
I2C-DISABLE
CN0102
5P
GND
SCL
SDA
CS
ADC
SERVICE CONNECTOR
TUNER
COINCIDENCE
COINCIDENCE DETECTOR
VIDEO IN
VIDEO
MICRO
VIDEO RF
Y100
U100
V100
V OUT 3
CVBS TXT
V OUT 2
CVBS PIP
C FRONT
Y/CVBS FRONT
C IN 3
V/Y IN 3
V IN 2
V IN 1
BLUE IN 2
GREEN IN 2
RED IN 2
Y IN 100
U IN 100
V IN 100
PIP CR
PIP Y
PIP CB
PIP BLK
Q3500
2SK2036 (TE85L)
I2C ADAPTOR
Q3501
2SK2036 (TE85L)
I2C ADAPTOR
SCL33
SDA33
+3.3V
+5V
+1.8V
HSYNC
VSYNC
A 2/2

COMPONENTS MARKED AS xx ARE NOT FITTED ON THIS MODEL

~ A Schematic [Video & Audio Processors, Audio Output, Vertical Deflection] page 2/2~

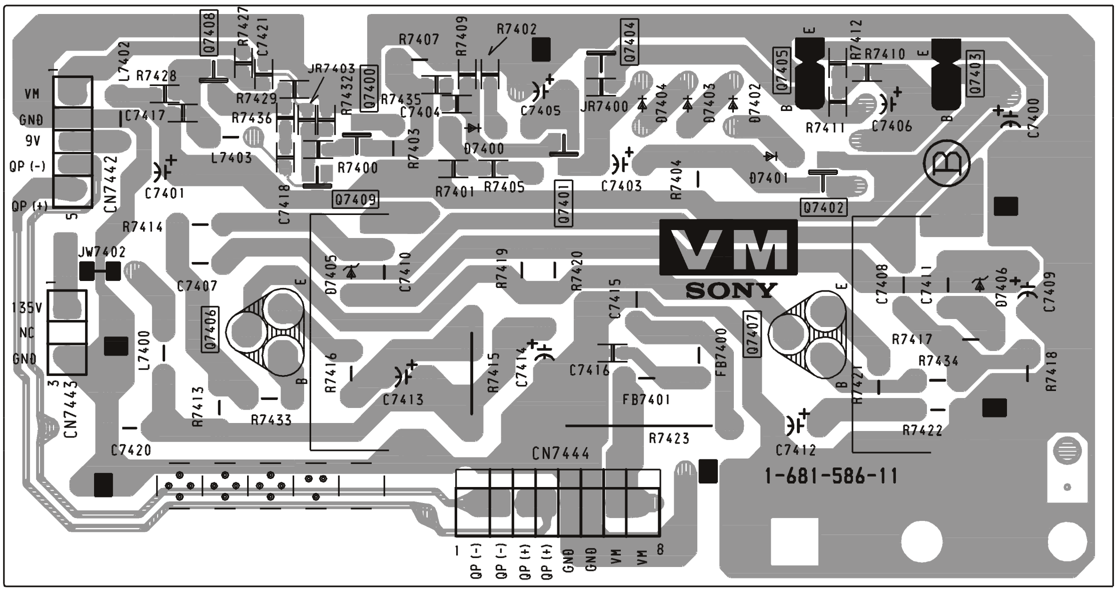

A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
10
11
A- 1631- XXX-A
ICT
CBA
DIP
REF
0XXX=MICRO
1XXX=IF
2XXX=AUDIO
3XXX=VIDEO
5XXX=DEFLECTION
6XXX=POWER
7XXX=RGB
>PF-LP<
A
SONY
1-681-585-11
(1-719-913-11)
CN5801
CN5802
CN5200
CN8001
CN0103
CN2000
CN0102
CN5002
CN7001
CN7000
CN5100
CN0101
CN1001
CN1000
CN6205
CN2500
CN2501
CN2502
CN6202
CN6200
CN6204
CN6206
CN6203
IC5200
IC5201
IC5301
IC5302
IC5300
IC5102
IC5104
IC6205
IC5400
IC6206
IC6207
IC6204
IC6202
IC6203
IC2500
IC6201
IC6200
TU1000
X2000
X3200
X3100
RV5101
CLP4
CLP5
CLP6

~ A Printed Wiring Board Conductor side A ~

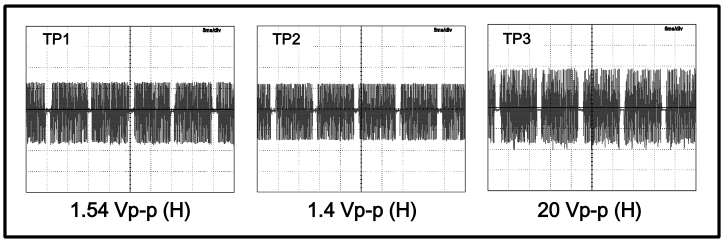

A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
10
11
A
SONY
1-681-585-11
(1-719-913-11)
B
CN2000
CN5200
CN5801
CN7001
CN8001
CN5002
IC3100
IC2000
IC7002
IC5300
IC2500
CN2500
CN2501
CN2502
CN6202
CN6205
TU1000

~ A Printed Wiring Board Conductor side B ~

~ VM Printed Wiring Board Conductor side ~


VM
GND
9V
QP (-)
QP (+)
5
CN7442
135V
NC
GND
3
1
CN7443
JW7402
L7402
R7428
C7417
Q7408
R7427
C7421
JR7403
R7429
R7436
R7432
Q7400
R7435
C7404
R7407
R7409
R7402
C7405
JR7400
Q7404
D7404
D7403
D7402
Q7405
R7412
R7410
R7411
C7406
Q7403
C7400
L7403
R7400
R7403
D7400
R7401
R7405
Q7401
C7403
R7404
D7401
Q7402
C7401
C7418
Q7409
R7414
C7407
L7400
Q7406
D7405
C7410
R7419
R7420
C7415
VM
SONY
C7408
C7411
D7406
C7409
R7417
R7434
R7418
R7416
C7413
R7415
C7414
C7416
FB7400
Q7407
FB7401
R7421
R7422
R7413
R7433
C7420
CN7444
R7423
C7412
1-681-586-11
E
B
1
QP (-)
QP (-)
QP (+)
QP (+)
GND
GND
VM
VM
8

~ VM Board Waveforms ~



~ VM Board Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)
Q7400	5.0	5.7	8.7
Q7401	0.9	1.5	4.1
Q7402	5.5	6.1	8.9
Q7403	5.1	5.5	8.9
Q7404	4.7	4.1	0
Q7405	5.1	4.7	0
Q7406	134	133.8	68
Q7407	1.1	1.4	68
Q7408	6.3	5.6	2.5
Q7409	5.7	6.3	0.9

~ A Board Location Table (A Side) ~

DIODE	
D0101	M - 7
D0104	L - 4
D0110	I - 4
D0111	H - 2
D0112	M - 4
D0113	M - 5
D1006	M - 10
D2014	K - 9
D2015	K - 9
D2018	M - 2
D2019	M - 2
D2502	H - 9
D3001	M - 7
D3003	M - 7
D3005	M - 7
D3007	M - 7
D3008	M - 7
D3009	N - 7
D3011	M - 4
D3013	M - 4
D3015	M - 4
D3017	M - 4
D3018	N - 3
D3019	N - 3
D3021	M - 4
D3023	M - 4
D3024	M - 4
D3026	M - 2
D3028	M - 2
D3201	J - 2
D5103	D - 6
D5104	E - 5
D5200	D - 2
D5201	E - 2
D5305	D - 6
D5306	C - 5
D5307	C - 6
D5400	E - 4
D5404	F - 3
D5405	F - 3
D5807	F - 7
D6200	J - 6
D7004	F - 7
D5809	K - 8
IC	
IC5104	D - 6
IC5200	B - 3
IC5201	C - 4
IC5300	E - 4
IC5301	D - 4
IC5302	B - 4
IC5400	G - 4
IC6201	G - 10
IC6202	I - 6
IC6203	J - 6
IC6205	D - 5
IC6206	H - 3
IC6207	H - 4
TRANSISTOR	
Q5202	E - 2
Q5301	C - 5
Q5306	E - 4
Q5404	F - 4

~ A Board Location Table (B Side) ~

DIODE	
D0101	B - 7
D0104	C - 5
D0110	G - 4
D0111	G - 2
D0112	C - 5
D0113	C - 5
D1006	B - 10
D2014	C - 9
D2015	D - 9
D2016	E - 8
D2018	B - 2
D2019	B - 2
D2500	G - 9
D2502	G - 9
D2503	G - 9
D3001	B - 7
D3003	B - 7
D3005	B - 7
D3007	B - 6
D3008	B - 6
D3009	B - 6
D3011	C - 4
D3013	C - 4
D3015	C - 4
D3017	B - 4
D3018	B - 3
D3019	B - 3
D3021	C - 4
D3023	B - 3
D3024	B - 3
D3026	B - 2
D3028	C - 2
D3201	F - 2
D5103	L - 6
D5104	J - 5
D5200	K - 2
D5202	L - 4
D5300	L - 5
D5303	N - 4
D5304	M - 4
D5305	L - 6
D5306	L - 5
D5307	L - 7
D5308	M - 4
D5309	J - 3
D5400	K - 4
D5401	J - 4
D5404	J - 3
D5405	I - 3
D5809	K - 8
D5811	L - 8
D5812	L - 8
D6200	F - 7
IC	
IC2000	C - 8
IC2001	D - 9
IC2500	F - 8
IC3100	E - 5
IC3200	E - 3
IC5103	L - 3
IC5104	K - 6
IC5200	M - 3
IC5201	L - 4
IC5300	J - 3
IC5301	K - 4
IC5302	M - 4
IC5400	I - 3
IC6200	I - 9
IC6201	I - 8
IC6202	F - 6
IC6203	E - 6
IC6205	K - 5
IC6206	G - 3
IC6207	G - 4
TRANSISTOR	
Q1000	C - 6
Q1001	D - 6
Q1004	D - 10
Q1005	B - 2
Q1006	B - 3
Q2000	C - 9
Q2002	D - 9
Q2003	D - 9
Q2004	E - 7
Q2005	E - 7
Q2501	G - 8
Q2502	G - 9
Q2503	G - 9
Q3200	C - 3
Q3201	C - 2
Q3202	C - 3
Q3204	C - 3
Q3300	F - 3
Q3301	F - 3
Q3302	F - 3
Q3500	F - 3
Q3501	F - 3
Q5101	M - 5
Q5200	M - 4
Q5201	N - 3
Q5202	K - 3
Q5203	J - 2
Q5204	L - 4
Q5205	M - 3
Q5300	M - 4
Q5301	L - 5
Q5302	K - 7
Q5303	M - 4
Q5304	M - 5
Q5305	K - 3
Q5306	K - 4
Q5400	J - 4
Q5401	K - 4
Q5402	J - 5
Q5403	J - 4
Q5404	J - 4
Q5813	J - 8
Q5815	L - 8
Q5816	L - 8
Q7003	H - 6
Q7009	K - 6
Q7011	J - 6
Q7012	J - 5
Q7013	J - 6
Q7014	J - 6
Q7015	I - 5
Q7016	I - 5
Q7017	I - 6
Q7018	I - 5
Q7019	I - 5

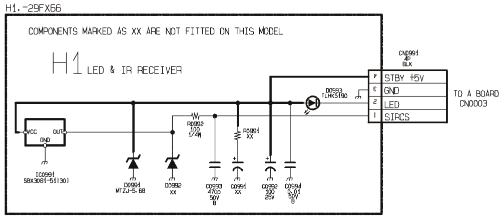
~ A Board Semiconductor Voltage Table ~

Ref	(s)	(g)	(d)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q3500	2.7	3.3	3.9	Q2002	0	0	4	Q3204	5	4.4	3.4	Q5205	1.9	1.2	0	Q5813	0	7.9	0	Q7015	11.6	10.9	8.8
Q3501	2.7	3.3	4	Q2003	0	0	4	Q3300	0.7	1.3	5	Q5300	0	0.4	2.2	Q5814	0	0	0	Q7016	6	6.6	10.9
Q5301	0	5.1	51.2	Q2004	3.3	3.9	8.3	Q3301	1.9	1.2	0	Q5301	5.1	0	51.2	Q5815	0	0	5	Q7017	2.7	2	0
Q5404	0	0	0.5	Q2005	3.3	3.9	8.3	Q3302	1.9	1.2	0	Q5302	8.9	5.7	0	Q5816	5	5	0	Q7018	11.6	10.9	8.6
Ref	**(e)**	**(b)**	**(c)**	Q2501	0	0	15.2	Q3500	3.3	2.7	3.9	Q5304	0	0.4	5.6	Q7003	5.6	6.2	8.8	Q7019	6	6.6	10.9
Q1001	3.2	3.9	8.3	Q2502	0	0.7	0	Q3501	3.3	2.7	4	Q3400	0	0	0.1	Q7009	3.2	7	0.1	Q7020	8.9	8.9	0
Q1004	1.9	1.3	0	Q2503	0.6	0.6	0.5	Q5101	0	0.4	6.4	Q5401	0	0	7.9	Q7011	2.5	1.9	0	Q7021	2.7	2.7	8.9
Q1005	0	0.5	5	Q3200	1.9	2.5	4.4	Q5201	2.8	3.4	7.9	Q5402	0	0	-11.3	Q7012	11.6	10.9	8.7				
Q1006	5	4.7	1	Q3201	1.9	2.5	4.4	Q5202	0.2	0.8	11.7	Q5403	-13.5	-11.2	-8.3	Q7013	6	6.6	10.9				
Q2000	4.2	4.8	8.3	Q3202	5	4.4	3.4	Q5203	0.2	0.8	11.7	Q5404	0	0	0.5	Q7014	2.5	1.8	0				

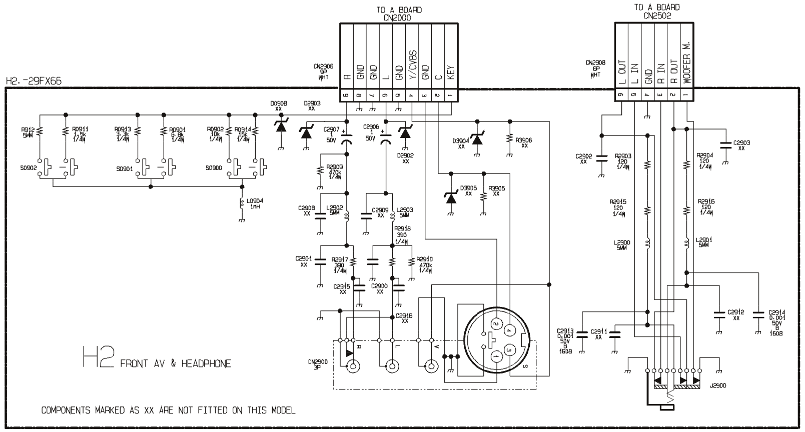
~ A Board IC Voltage Table ~

IC Voltage Table														
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC3100	1	1.3	IC5103	6	1.8	IC5201	5	9.3	IC5400	6	13.7	IC7002	32	8.9
	2	1.7		7	2		6	0.5		7	1.4		33	0
	3	2.6		8	0		7	12.1	IC7002	1	3.6		34	4.7
	4	0		9	3.1		8	-14.1		2	0		35	4.7
	5	2.5		10	3	IC5300	1	6		3	4.4		36	4.7
	6	3.3		11	5		2	6		4	4.8		37	8.9
	7	0		12	5		3	6		5	3.5		38	0
	8	0		13	5		4	0		6	3.4		39	4.8
	9	1.1		14	0		5	6		7	7.6		40	4.8
	10	1.1		15	0		6	6		8	0		41	4.8
	11	0		16	5		7	6		9	0		42	0
	12	0	IC5200	1	4.8		8	12		10	0.4		43	0
	13	0		2	4.9	IC5301	1	1.7		11	1.8		44	0
	14	0		3	4.8		2	8.5		12	0.4		45	6.3
	15	0.5		4	4.8		3	6.5		13	0.9		46	8.9
	16	0.3		5	5		4	0		14	5		47	8.9
	17	0.3		6	5		5	6.5		15	2.5		48	6
	18	0.3		7	5		6	7.1		16	0		49	2.5
	19	3.3		8	5		7	0.4		17	3		50	4.1
	20	0		9	4.9		8	12		18	2.7		51	0
	21	3.3		10	12.1	IC5302	1	0		19	3.9		52	6
	22	3.3		11	4.1		2	5.8		20	0		53	5.8
	23	0		12	5		3	6.3		21	6.1		54	5.8
	24	3.2		13	5		4	0		22	2.7		55	0.4
	25	1.2		14	1.9		5	6.6		23	8.8		56	5.8
	26	3.2		15	1.1		6	6.5		24	0		57	5.8
	27	2.1		16	0		7	0.4		25	4.3		58	5.8
	28	0.3		17	0		8	12		26	3.2		59	0.3
IC5103	1	3.3		18	0	IC5400	1	1.4		27	5.2		60	0
	2	3.3	IC5201	1	9.3		2	13.2		28	0.3		61	0
	3	1.9		2	3.8		3	-12.5		29	4.9		62	2.9
	4	2.6		3	3.8		4	-15.4		30	3.4		63	3.7
	5	2.5		4	-15.4		5	-0.4		31	5.6			

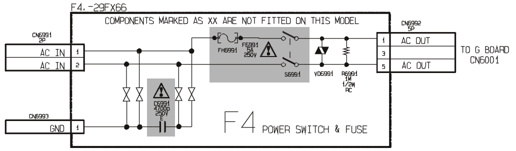
~ H1 Board Schematic Diagram ~

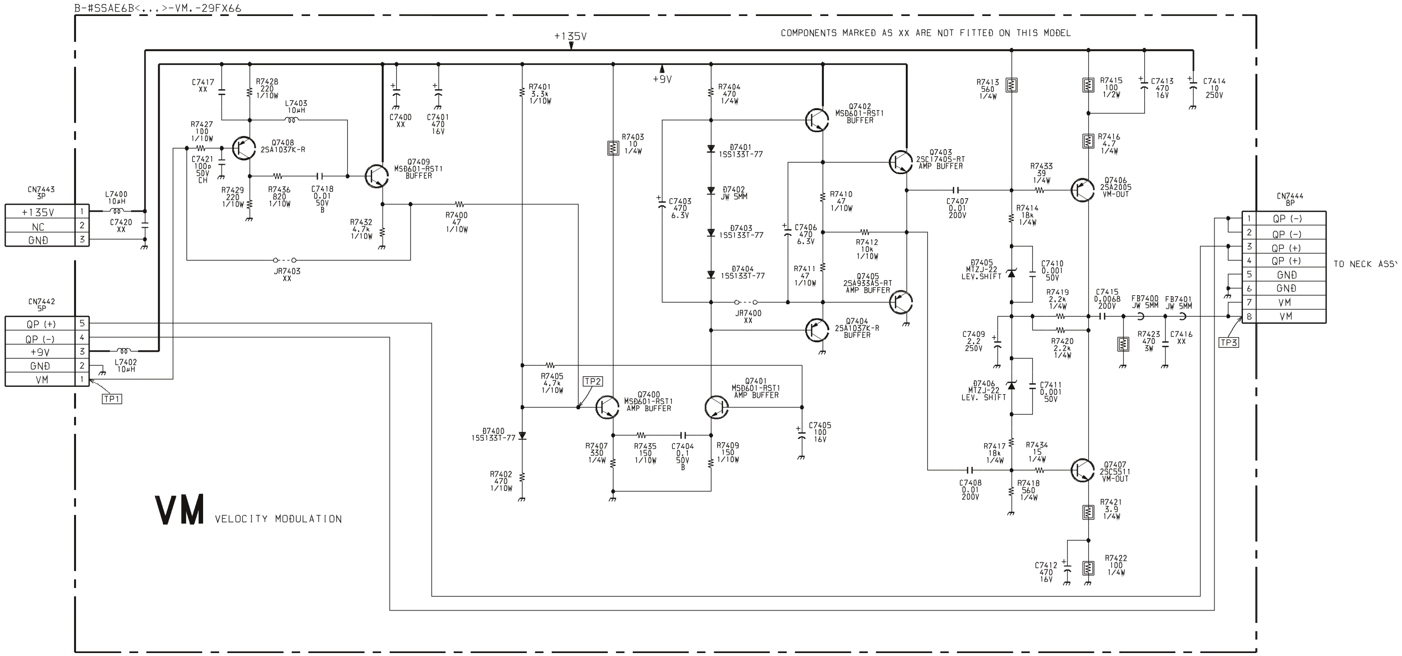

H1.-29FX66
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
H1 LED & IR RECEIVER
CN0991
STBY +5V
GND
LED
SIRCS
TO A BOARD CN0003
D0993 TLHK5100
R0992 100 1/4W
R0991 XX
IC0991 SBX3081-51(30)
VCC
OUT
GND
D0991 MTZJ-5.6B
D0992 XX
C0993 470p 50V B
C0991 XX
C0992 100 25V
C0994 0.01 50V B

~ H2 Board Schematic Diagram ~

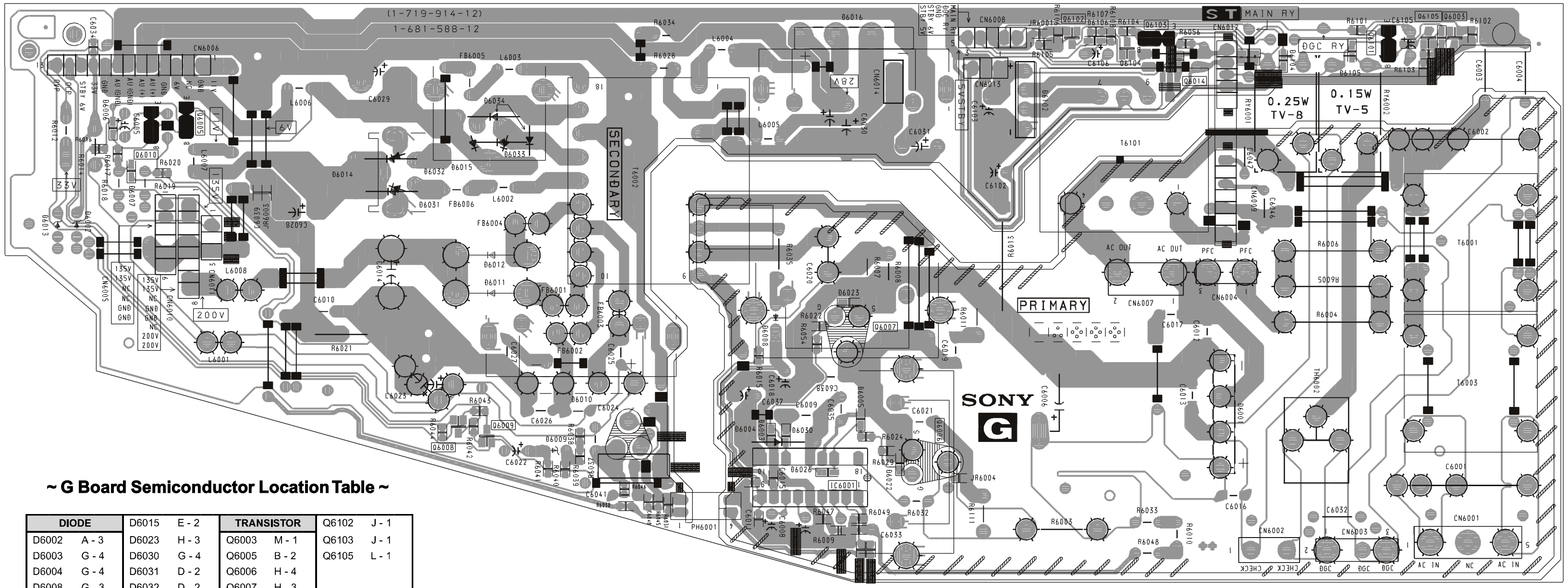

TO A BOARD CN2000
TO A BOARD CN2502
CN2906 9P WHT
R
GND
L
GND
Y/CVBS
GND
C
KEY
CN2908 8P WHT
L OUT
L IN
GND
R IN
R OUT
WOOFER M.
H2.-29FX66
S0902
S0901
S0900
L0904
D0908
D2903
C2907
C2906
D2902
D3904
D3905
R3905
R3906
C2902
C2903
R2903
R2904
R2915
R2916
L2900
L2901
C2908
L2902
C2909
L2903
R2918
C2901
R2917
R2910
C2915
C2900
C2916
C2913
C2911
C2912
C2914
CN2900
J2900
H2 FRONT AV & HEADPHONE
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ F4 Board Schematic Diagram ~


F4.-29FX66
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
CN6991 3P
AC IN
AC IN
CN6993
GND
FH6991
F6991 5A 250V
S6991
VD6991
R6991 1M 1/2W AC
C6991
CN6992 5P
AC OUT
AC OUT
TO G BOARD CN6001
F4 POWER SWITCH & FUSE


B-#SSAE6B<...>-VM.-29FX66
+135V
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
+9V
C7417 XX
R7428 220 1/10W
L7403 10uH
R7427 100 1/10W
Q7408 2SA1037K-R
C7421 100p 50V CH
R7429 220 1/10W
R7436 820 1/10W
C7418 0.01 50V B
Q7409 MSD601-RST1 BUFFER
C7400 XX
C7401 470 16V
R7432 4.7k 1/10W
R7400 47 1/10W
JR7403 XX
R7401 3.3k 1/10W
R7403 10 1/4W
C7403 470 6.3V
R7404 470 1/4W
Q7401 1SS133T-77
Q7402 JW 5MM
Q7403 1SS133T-77
Q7404 1SS133T-77
JR7400 XX
Q7402 MSD601-RST1 BUFFER
Q7403 2SC17405-RT AMP BUFFER
R7410 47 1/10W
C7406 470 6.3V
R7412 10k 1/10W
R7411 47 1/10W
Q7405 2SA933AS-RT AMP BUFFER
Q7404 2SA1037K-R BUFFER
R7405 4.7k 1/10W
TP2
Q7400 MSD601-RST1 AMP BUFFER
Q7401 MSD601-RST1 AMP BUFFER
C7405 100 16V
D7400 1SS133T-77
R7407 330 1/4W
R7435 150 1/10W
C7404 0.1 50V B
R7409 150 1/10W
R7402 470 1/10W
R7413 560 1/4W
R7415 100 1/2W
C7413 470 16V
C7414 10 250V
R7416 4.7 1/4W
R7433 39 1/4W
Q7406 2SA2005 VM-OUT
C7407 0.01 200V
R7414 18k 1/4W
D7405 MTZJ-22 LEV.SHIFT
C7410 0.001 50V
R7419 2.2k 1/4W
C7415 0.0068 200V
FB7400 JW 5MM
FB7401 JW 5MM
C7409 2.2 250V
R7420 2.2k 1/4W
R7423 470 3W
C7416 XX
D7406 MTZJ-22 LEV. SHIFT
C7411 0.001 50V
R7417 18k 1/4W
R7434 15 1/4W
Q7407 2SC5511 VM-OUT
C7408 0.01 200V
R7418 560 1/4W
R7421 3.9 1/4W
C7412 470 16V
R7422 100 1/4W
CN7443 3P
+135V
NC
GND
L7400 10uH
C7420 XX
CN7442 5P
QP (+)
QP (-)
+9V
GND
VM
L7402 10uH
TP1
CN7444 8P
QP (-)
QP (-)
QP (+)
QP (+)
GND
GND
VM
VM
TP3
TO NECK ASSY
VM VELOCITY MODULATION

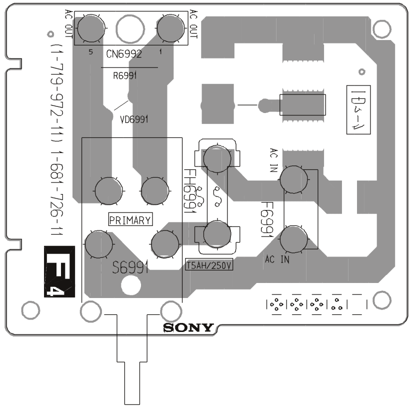
~ VM Board Schematic Diagram ~


(1-719-914-12)
1-681-588-12
SECONDARY
PRIMARY
SONY
G
MAIN RY
DGC RY
0.25W TV-8
0.15W TV-5
200V
135V
28V
6V
33V
STBY 5V
AC OUT
AC IN
PFC
CHECK
NC

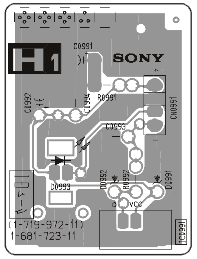
~ G Board Semiconductor Location Table ~

DIODE		D6015	E - 2	TRANSISTOR		Q6102	J - 1
D6002	A - 3	D6023	H - 3	Q6003	M - 1	Q6103	J - 1
D6003	G - 4	D6030	G - 4	Q6005	B - 2	Q6105	L - 1
D6004	G - 4	D6031	D - 2	Q6006	H - 4		
D6008	G - 3	D6032	D - 2	Q6007	H - 3		
D6009	E - 4	D6033	E - 2	Q6008	D - 4		
D6010	E - 4	D6034	E - 2	Q6009	E - 4		
D6011	E - 3	IC		Q6010	B - 2		
D6012	E - 3	IC6001	G - 5	Q6014	J - 2		
D6013	A - 3			Q6101	L - 1		

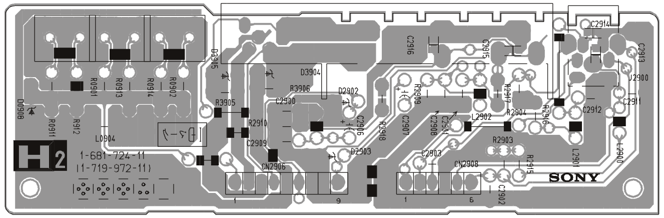
~ G Printed Wiring Board Conductor side ~


F4
(1-719-972-11) 1-681-726-11
CN6992
R6991
VD6991
FH6991
F6991
PRIMARY
S6991
T5AH/250V
AC OUT
AC IN
SONY

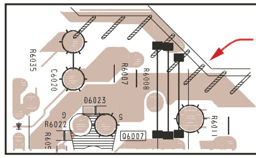
~ F4 Printed Wiring Board Conductor side ~


H1
SONY
C0991
R0991
D0993
(1-719-972-11)
1-681-723-11

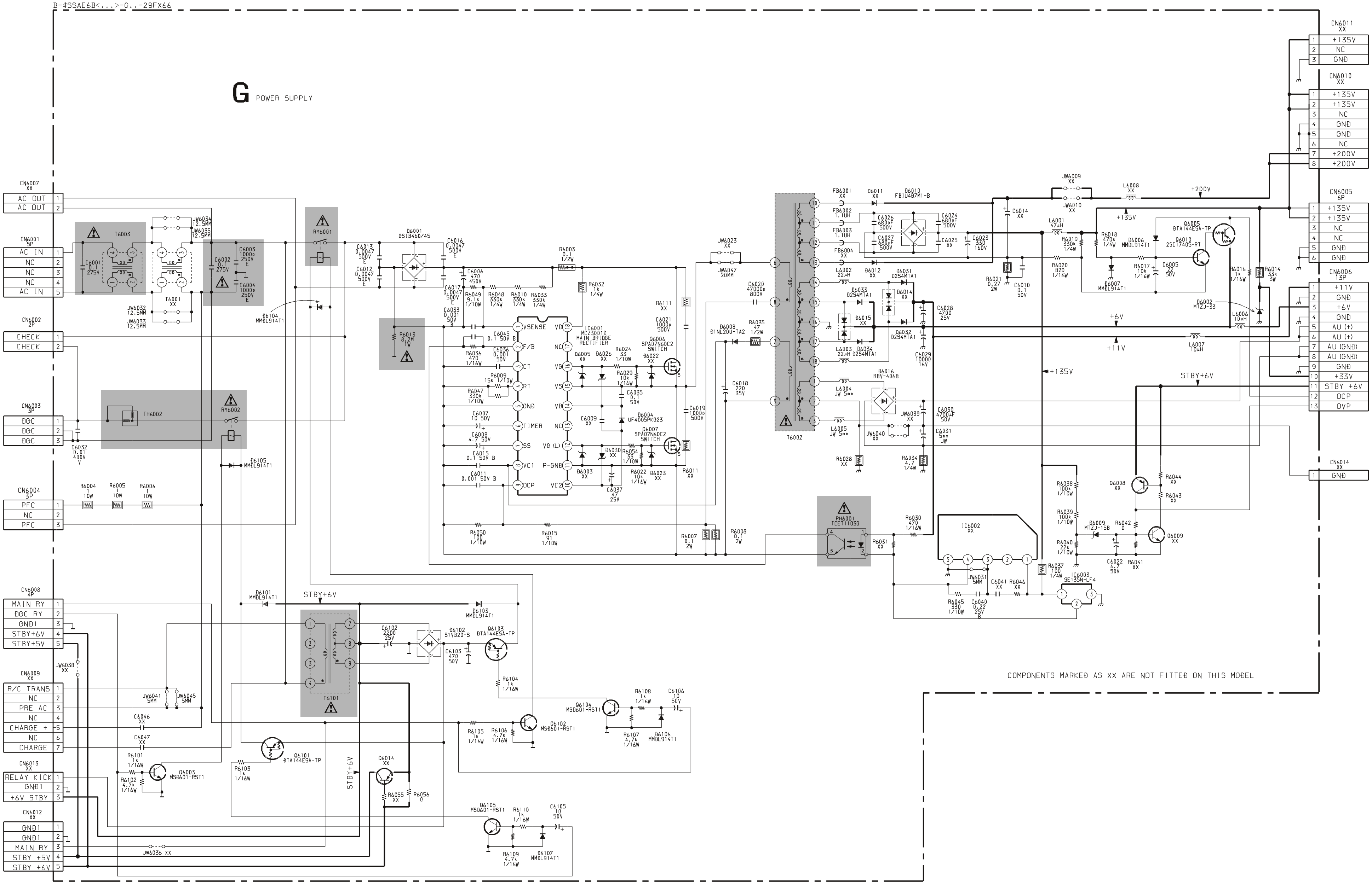
~ H1 Printed Wiring Board Conductor side ~


H2
1-681-724-11
(1-719-972-11)
SONY
L0904
D3904
C2914
CN2908
CN2906

~ H2 Printed Wiring Board Conductor side ~

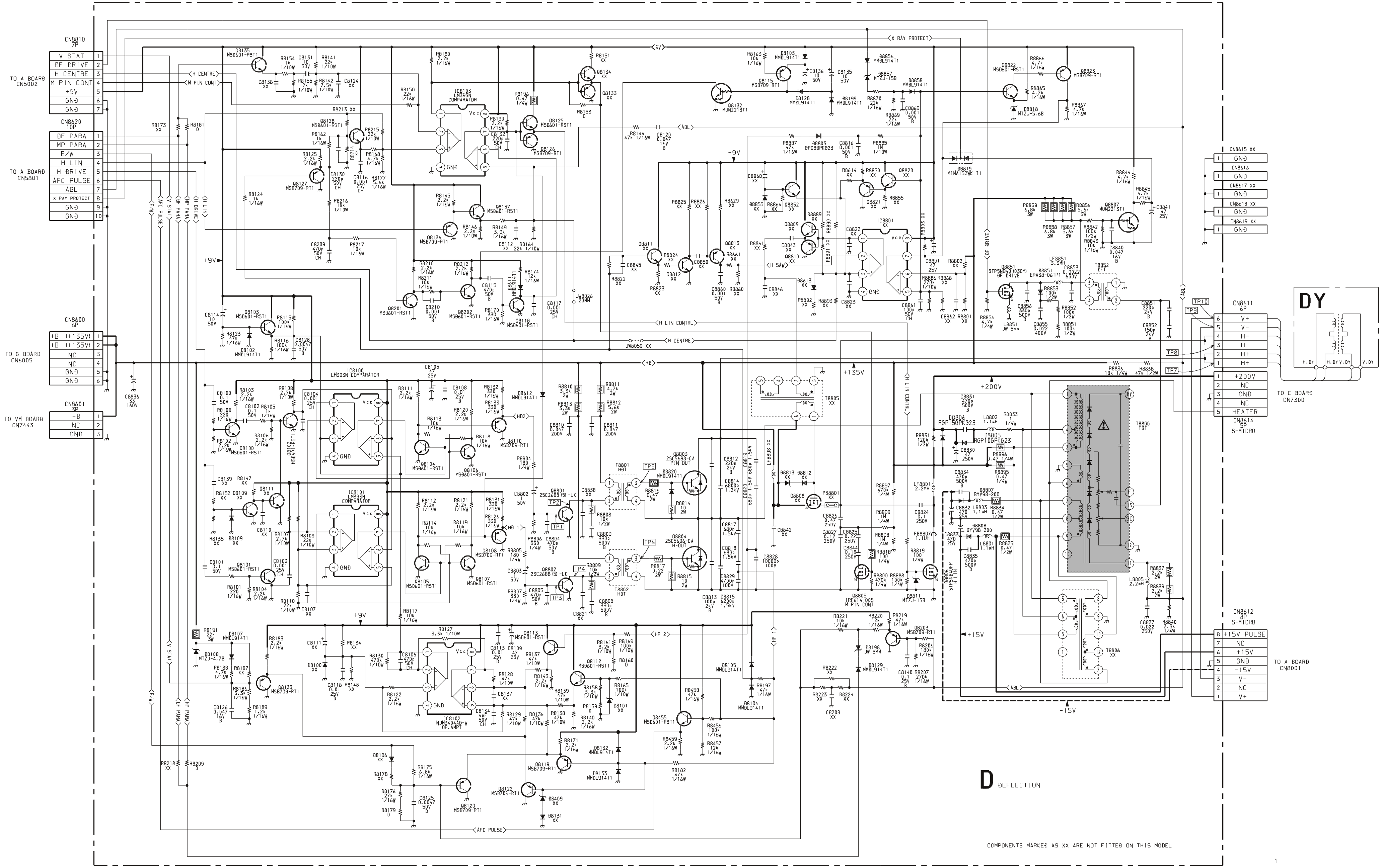

R6035
C6020
R6007
R6008
D6023
R6022
Q6007
R6011

Note :
Portions of the circuit contained within the marked areas as shown have high voltages present. Use care to prevent electric shock during inspection or repair. An Isolation Transformer must be used during any Service work to avoid possible shock hazard due to live chassis. The chassis of this receiver is directly connected to the power line.


B-#SSAE6B<...>-G..-29FX66
G POWER SUPPLY
CN6007 XX
AC OUT
AC OUT
CN6001 5P
AC IN
NC
NC
NC
AC IN
TO F4 BOARD CN6992
CN6002 2P
CHECK
CHECK
CN6003 3P
DGC
DGC
DGC
CN6004 3P
PFC
NC
PFC
CN6008 4P
MAIN RY
DGC RY
GND1
STBY+6V
STBY+5V
TO A BOARD CN6200
CN6009 XX
R/C TRANS
NC
PRE AC
NC
CHARGE +
NC
CHARGE
CN6013 XX
RELAY KICK
GND1
+6V STBY
CN6012 XX
GND1
GND1
MAIN RY
STBY +5V
STBY +6V
T6003
T6001
RY6001
RY6002
TH6002
D6001 GSIB460/45
IC6001 MCZ3001D MAIN BRIDGE RECTIFIER
VSENSE
F/B
CT
RT
GND
TIMER
SS
VC1
OCP
VD
NC
VG
VS
VB
NC
VG (L)
P-GND
VC2
Q6006 SPA07N60C2 SWITCH
Q6007 SPA07N60C2 SWITCH
D6004 UF4005PKG23
T6002
PH6001 TCET1103G
IC6002 XX
IC6003 SE135N-LF4
T6101
D6102 S1VB20-S
Q6103 DTA144ESA-TP
Q6101 DTA144ESA-TP
Q6102 MSD601-RST1
Q6104 MSD601-RST1
Q6105 MSD601-RST1
Q6003 MSD601-RST1
Q6014 XX
Q6005 DTA144ESA-TP
Q6010 2SC1740S-RT
Q6008 XX
Q6009 XX
D6010 FBIU4D7M1-B
D6016 RBV-406B
D6002 MTZJ-33
D6009 MTZJ-15B
STBY+6V
+200V
+135V
+6V
+11V
CN6011 XX
+135V
NC
GND
CN6010 XX
+135V
+135V
NC
GND
GND
NC
+200V
+200V
CN6005 6P
+135V
+135V
NC
NC
GND
GND
TO D BOARD CN8600
CN6006 13P
+11V
GND
+6V
GND
AU (+)
AU (+)
AU (GND)
AU (GND)
GND
+33V
STBY +6V
OCP
OVP
TO A BOARD CN6202
CN6014 XX
GND

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

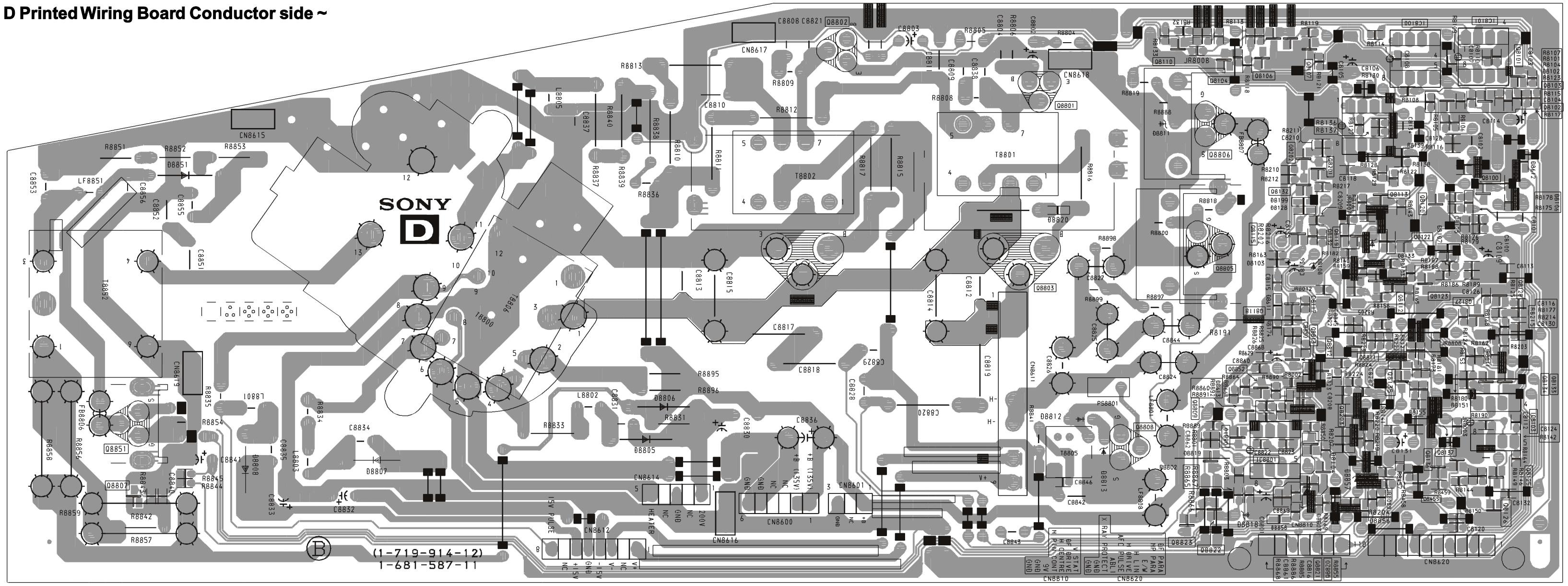
B-#SSAE6B<...>-D..-29FX66


CN8810 7P
V STAT
DF DRIVE
H CENTRE
M PIN CONT
+9V
GND
GND
TO A BOARD CN5002
CN8620 10P
DF PARA
MP PARA
E/W
H LIN
H DRIVE
AFC PULSE
ABL
X RAY PROTECT
GND
GND
TO A BOARD CN5801
CN8600 6P
+B (+135V)
+B (+135V)
NC
NC
GND
GND
TO G BOARD CN6005
CN8601 3P
+B
NC
GND
TO VM BOARD CN7443
IC8103 LM393N COMPARATOR
IC8100 LM393N COMPARATOR
IC8101 LM393N COMPARATOR
IC8102 NJM3404AD-W OP.AMPT
IC8801
X RAY PROTECT
9V
+9V
H CENTRE
M PIN CONT
ABL
H SAW
H LIN CONTRL
H CENTRE
+B
+135V
+200V
HP 2
HP 1
AFC PULSE
DF DRIVE
T8801 HDT
T8802 HDT
T8805
T8806
T8800 FBT
T8852 DFT
Q8803 2SC5698-CA PIN OUT
Q8804 2SC5696-CA H-OUT
Q8805 IRF614-005 M PIN CONT
Q8851 STP5NB40 (030Y) DF DRIVE
DY
H.DY
V.DY
CN8611 6P
V+
V-
H-
H-
H+
H+
TP5
TP6
TP7
TP8
TP9
TP10
CN8615 XX
CN8616
CN8617 XX
CN8618 XX
CN8619 XX
GND
CN8614 5P S-MICRO
+200V
NC
GND
NC
HEATER
TO C BOARD CN7300
CN8612 8P S-MICRO
+15V PULSE
NC
+15V
GND
-15V
V-
NC
V+
TO A BOARD CN8001
+15V
-15V
D DEFLECTION

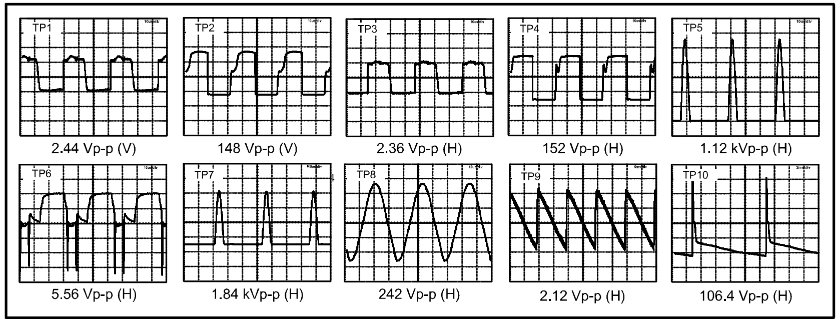
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

1

~ D Printed Wiring Board Conductor side ~



~ D Board Waveforms ~

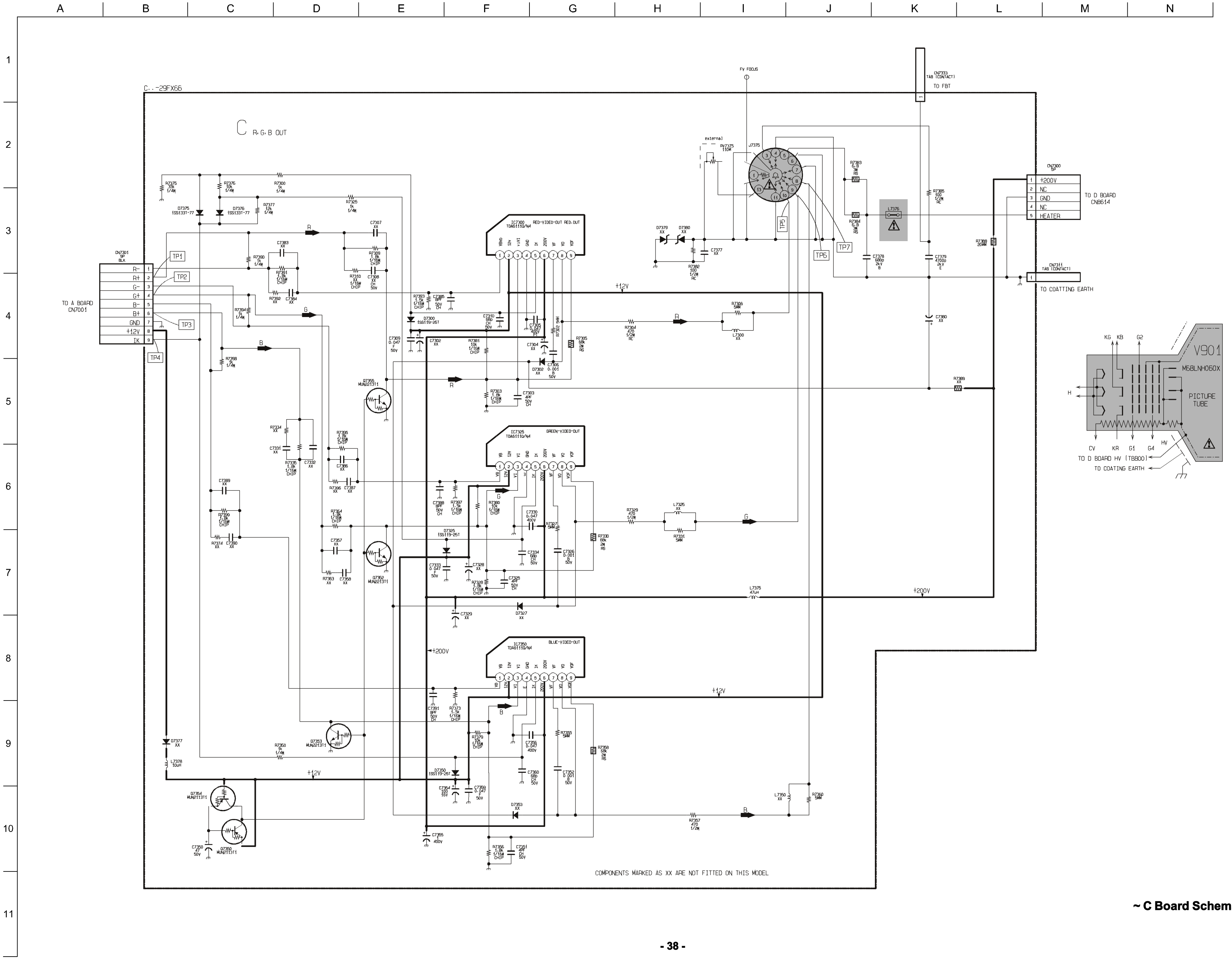


~ D Board IC Voltage Table ~

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC8100	1	0.3
	2	4.3
	3	4.1
	5	4.1
	6	3.0
	7	0.4
IC8101	1	0.3
	2	4.3
	3	4.4
	5	4.4
	6	3.0
	7	0.4
IC8102	1	4.1
	2	0.4
	3	0.4
	5	0.4
	6	0.4
	7	0.4
IC8103	1	2.5
	2	2.1
	3	1.7
	5	1.6
	6	1.0
	7	1.1

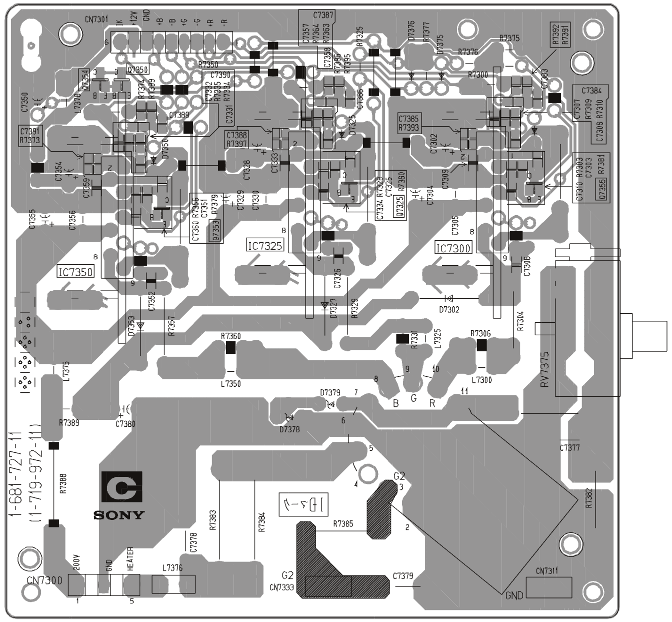
~ D Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q8100	0	0.6	3.6	Q8110	2.4	3.1	0	Q8128	3.4	1.5	8.9	Q8801	0	0.4	64.7
Q8101	0	0.6	4.3	Q8113	0.3	0.2	8.9	Q8132	0	0	3.4	Q8802	0	0.4	73.2
Q8102	0	0.3	4.3	Q8115	8.6	8.9	0	Q8135	2.6	3.2	8.9	Q8807	0	6.3	0
Q8103	4.0	0	8.9	Q8118	0	0	5.0	Q8136	2.5	1.8	0	Q8818	0	0	5.0
Q8104	0	0.4	3.1	Q8119	0.7	1.4	0	Q8137	1.8	2.5	8.9	Q8822	5.5	4.9	0
Q8105	0	0.4	3.2	Q8120	0.7	2.3	0	Q8201	0	0.6	3.9	Q8823	8.9	8.5	0
Q8106	0	0.3	4.3	Q8122	0.5	1.4	0	Q8202	0	0.8	3.4	Q8805	0	2.5	33
Q8107	0	0.3	4.2	Q8123	0.5	1.4	0	Q8203	1.4	0.9	0	Q8806	0	1.2	135
Q8108	2.4	3.2	0	Q8127	1.4	1.5	0	Q8455	1.1	1.7	8.9	Q8851	0	5.4	81.5

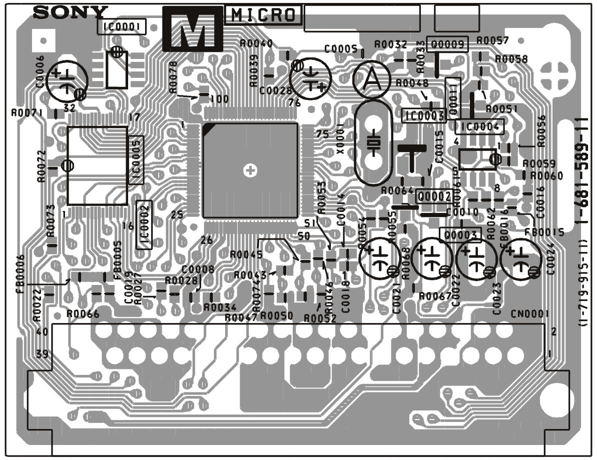

A B C D E F G H I J K L M N
1 2 3 4 5 6 7 8 9 10 11
C..-29FX66
C R.G.B OUT
CN7301 9P BLK
R- R+ G- G+ B- B+ GND +12V IK
TO A BOARD CN7001
TP1 TP2 TP3 TP4 TP5 TP6 TP7
IC7300 TDA6111Q/N4 RED-VIDEO-OUT
IC7325 TDA6111Q/N4 GREEN-VIDEO-OUT
IC7350 TDA6111Q/N4 BLUE-VIDEO-OUT
+12V
+200V
FV FOCUS
external
RV7375
J7375
CN7333 TAB (CONTACT) TO FBT
CN7300 5P
+200V NC GND NC HEATER
TO D BOARD CN8614
CN7311 TAB (CONTACT)
TO COATTING EARTH
L7376
L7375 47uH
V901 M58LNH050X PICTURE TUBE
KG KB G2 H CV KR G1 G4 HV
TO D BOARD HV (T8800)
TO COATING EARTH
Q7355 MUN2213T1
Q7352 MUN2213T1
Q7353 MUN2213T1
Q7354 MUN2113T1
Q7350 MUN2113T1
D7300 1SS119-25T
D7325 1SS119-25T
D7350 1SS119-25T
D7375 1SS133T-77
D7376 1SS133T-77
D7377 XX
L7378 10uH
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ C Board Schematic [R-G-B Out] ~

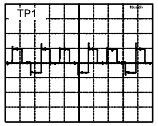
~ C Printed Wiring Board Conductor side ~


CN7301
IC7300
IC7325
IC7350
1-681-727-11
(1-719-972-11)
C
SONY
CN7300
CN7311
CN7333
RV7375
G2
GND
200V
HEATER

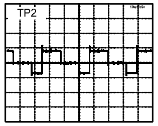
~ M Printed Wiring Board (A) side ~


SONY
M
MICRO
IC0001
IC0003
IC0004
IC0005
X0001
CN0001
1-681-589-11
(1-719-915-11)
A

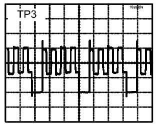
~ C Board Waveforms ~



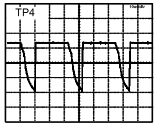
2.16 Vp-p (H)



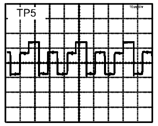
2.0 Vp-p (H)



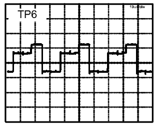
1.9 Vp-p (H)



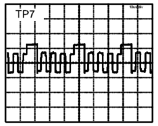
6.8 Vp-p (H)



116 Vp-p (H)

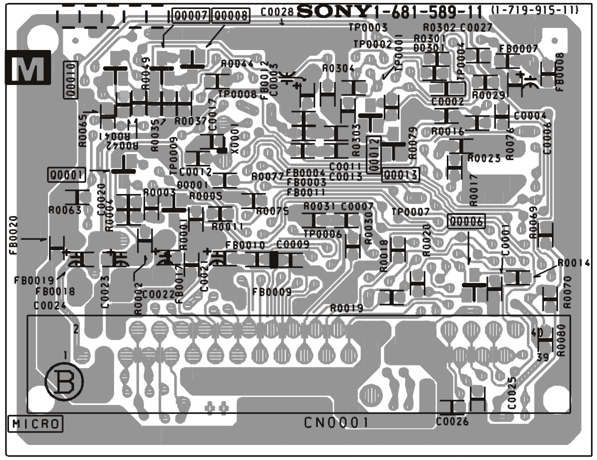


100 Vp-p (H)



100 Vp-p (H)

~ M Printed Wiring Board (B) side ~


M
SONY 1-681-589-11 (1-719-915-11)
MICRO
CN0001
B
X0001

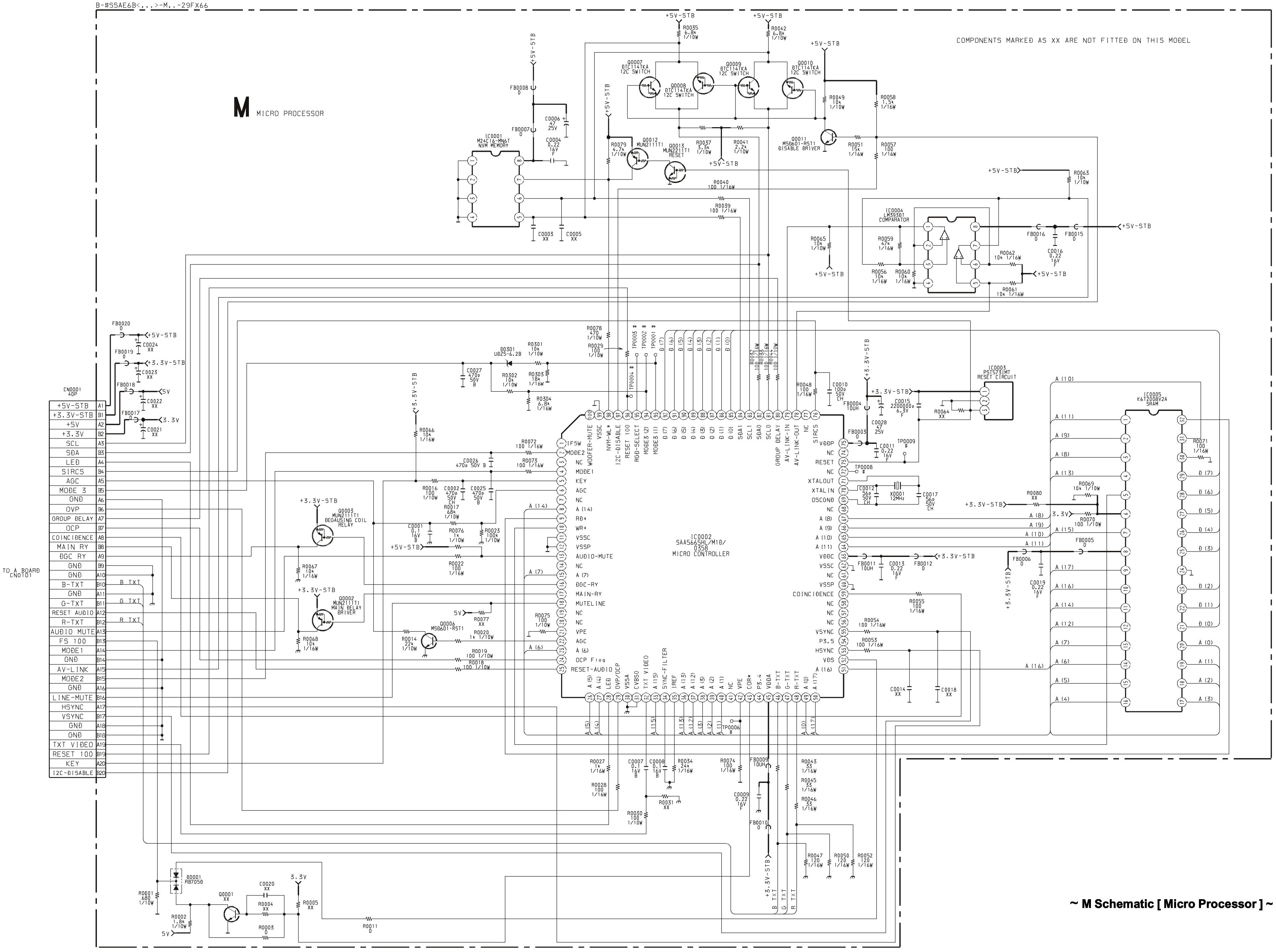
~ C Board Semiconductor Voltage Table ~

Ref	(e)	(b)	(c)
Q7350	12	11.98	0
Q7352	0	0	3.8
Q7353	0	0	3.8
Q7354	11.98	12	0
Q7355	0	0	3.8

~ C Board IC Voltage Table ~

IC Voltage Table

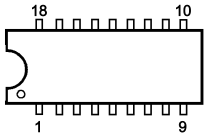
Ref No	Pin No	Voltage (V)
IC7300	1	3.9
	3	3.8
	5	7.5
	6	200
	7	140
	8	153
	9	140
IC7325	1	3.9
	3	3.8
	5	7.7
	6	200
	7	140
	8	153
	9	140
IC7350	1	3.9
	3	3.8
	5	7.5
	6	200
	7	139
	8	148
	9	138


B-#SSAE6B<...>-M..-29FX66
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
M MICRO PROCESSOR
IC0001 M24C16-MN6T NVM MEMORY
IC0002 SAA5665HL/M1D/0358 MICRO CONTROLLER
IC0003 PST573IMT RESET CIRCUIT
IC0004 LM393DT COMPARATOR
IC0005 K6T2008V2A SRAM
Q0007 DTC114TKA I2C SWITCH
Q0008 DTC114TKA I2C SWITCH
Q0009 DTC114TKA I2C SWITCH
Q0010 DTC114TKA I2C SWITCH
Q0011 MSD601-RST1 DISABLE DRIVER
Q0012 MUN2111T1
Q0013 MUN2211T1 RESET
Q0003 MUN2111T1 DEGAUSING COIL RELAY
Q0002 MUN2111T1 MAIN DELAY DRIVER
Q0006 MSD601-RST1
Q0001 XX
D0001 RB705D
D0301 UDZS-6.2B
X0001 12MHz
CN0001 40P
TO A BOARD CN0101
+5V-STB A1
+3.3V-STB B1
+5V A2
+3.3V B2
SCL A3
SDA B3
LED A4
SIRCS B4
AGC A5
MODE 3 B5
GND A6
OVP B6
GROUP DELAY A7
OCP B7
COINCIDENCE A8
MAIN RY B8
DGC RY A9
GND B9
GND A10
B-TXT B10
GND A11
G-TXT B11
RESET AUDIO A12
R-TXT B12
AUDIO MUTE A13
FS 100 B13
MODE1 A14
GND B14
AV-LINK A15
MODE2 B15
GND A16
LINE-MUTE B16
HSYNC A17
VSYNC B17
GND A18
GND B18
TXT VIDEO A19
RESET 100 B19
KEY A20
I2C-DISABLE B20
+5V-STB
+3.3V-STB
5V
3.3V

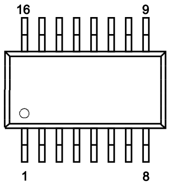
~ M Schematic [Micro Processor] ~

5-4. SEMICONDUCTORS

CXAB070AP
MCZ3001D

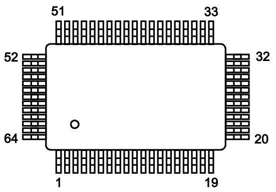


CXA1875AM-T4



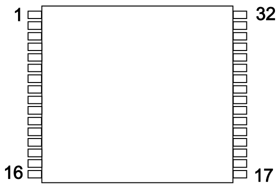
(TOP VIEW)

CXA2100AQ-TL

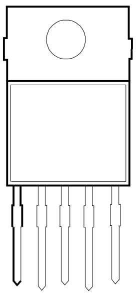

51
33
52
32
64
20
1
19

(TOP VIEW)

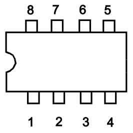
K6T2008V2A-YF70T00



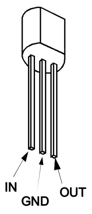
LA6500-FA



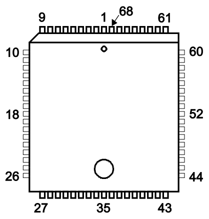
LM318P
LM358N
LM393DT
LM393N
M24C16-MN6T(A)



LM78L05ACZ

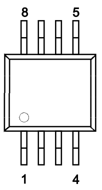


MSP3411G-QA-B10


9
1
68
61
10
60
18
52
26
44
27
35
43

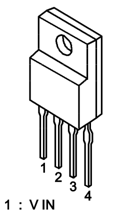
(TOP VIEW)

NJM3404AD-W
UPC4558G2



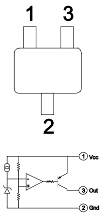
(TOP VIEW)

PQ30RV11

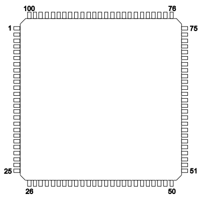


1 : V IN
2 : V OUT
3 : GND
4 : ON/OFF CONTROL

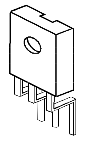
PST573IMT


1 3
2
① Vcc
③ Out
② Gnd

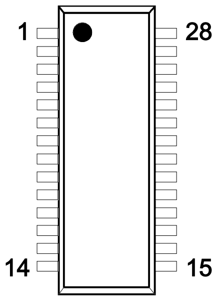
SAA5665HL/M1D/0358


100
76
1
75
25
51
26
50

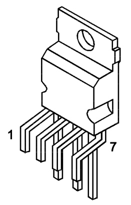
SBX3081-51(30)



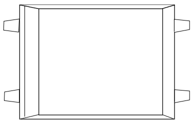
SDA9488X-B23GEG



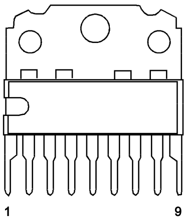
STV9379



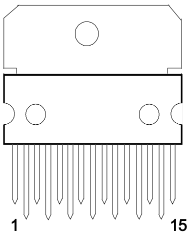
TCET1103G



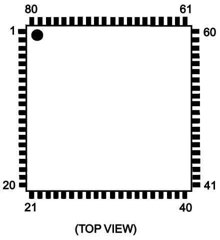
TDA6111Q/N4



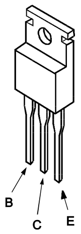
TDA7497



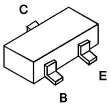
VPS9402-A32GEG


80
61
1
60
20
41
21
40
(TOP VIEW)

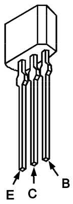
BA12T
BAO33T
IRF614-005
IRF620
SPA07N60C2
2SA2005
2SC5511



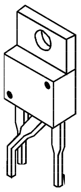
DTA144EK
DTC144TKA-T146
2SA1162-G



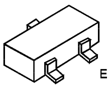
DTA144ESA
2SA933AS-QT
2SC2785-HFE



L7809CV/LSY
STP5NB40FP
STP5NB40(030Y)
2SC5698-CA
2S5696-SONY-CA



MSB709-RT1
MSD601-RST1
M1MA152WA-T1
UN2111
UN213
2SK2036(TE85L)



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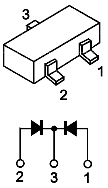
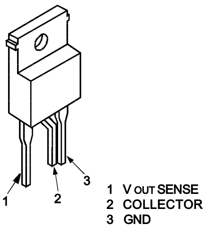
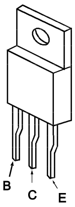


SE135N-LF4


1
2
3
1 V OUT SENSE
2 COLLECTOR
3 GND

2SA1837(LBS2S0N)



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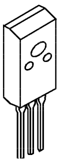

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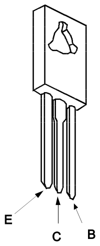

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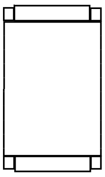

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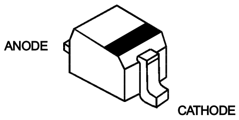
UDZSTE-176.2B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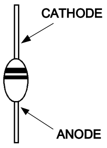
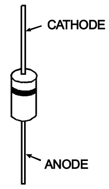
CATHODE

BYV98-200-RAS 15/12


CATHODE
ANODE

D1NL20U
EGP20G
EL1Z
GP08D
UF4005PKG23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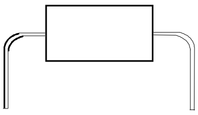
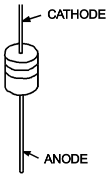
ANODE

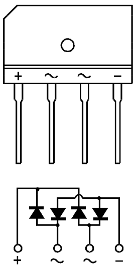
D2S4MTA1



ERA38-06
ERA85-009
HZS9.1NB2
MTZJ-13B
MTZJ-33B
MTZJ-3.6A
MTZJ-4.7C
MTZJ-T-77-22
RD15ES-B2
RD39ES-B2
RD5.6ESB2
1SS119-25
1SS133T-77


CATHODE
ANODE

FBIU4D7MA-B
RBV-406B
S1VB40



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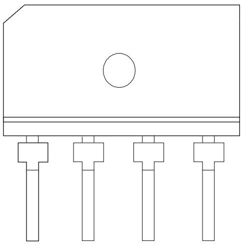

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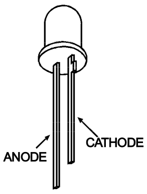
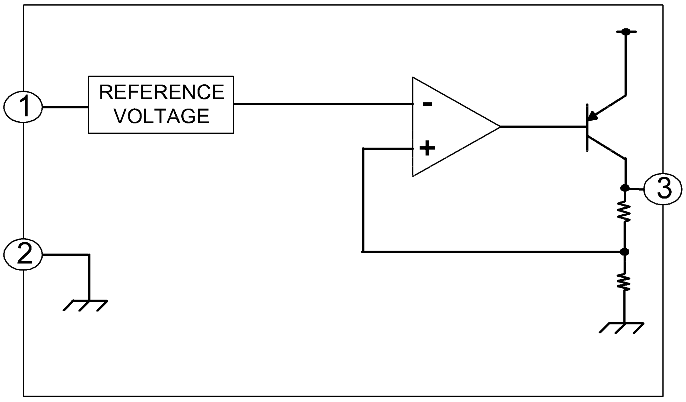
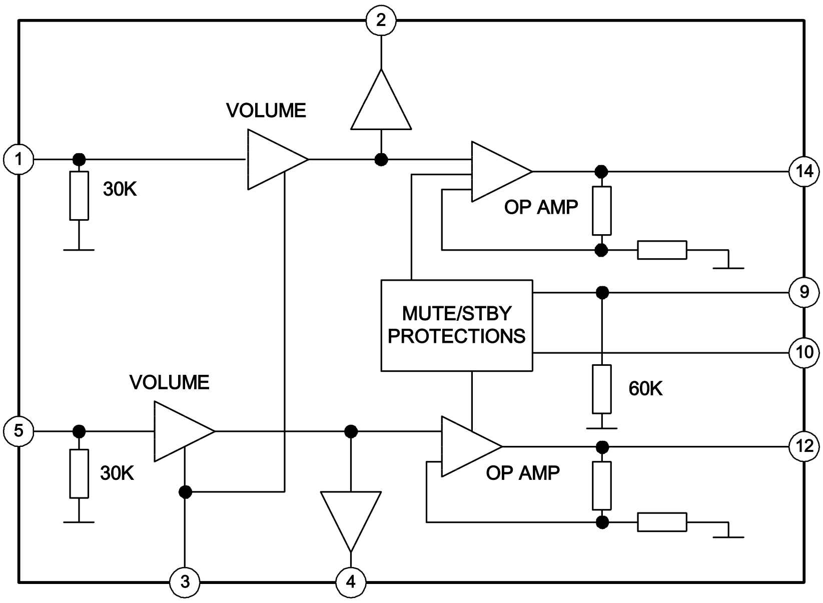

ANODE
CATHODE

5-5 IC BLOCK DIAGRAMS

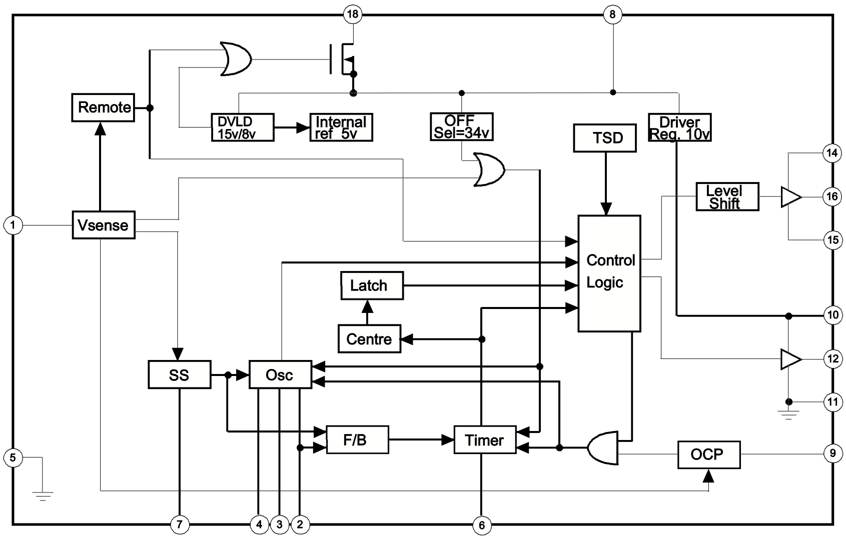
A BOARD IC6202/IC6207/IC6205 BA033T/BA12T


1
REFERENCE VOLTAGE
-
+
3
2

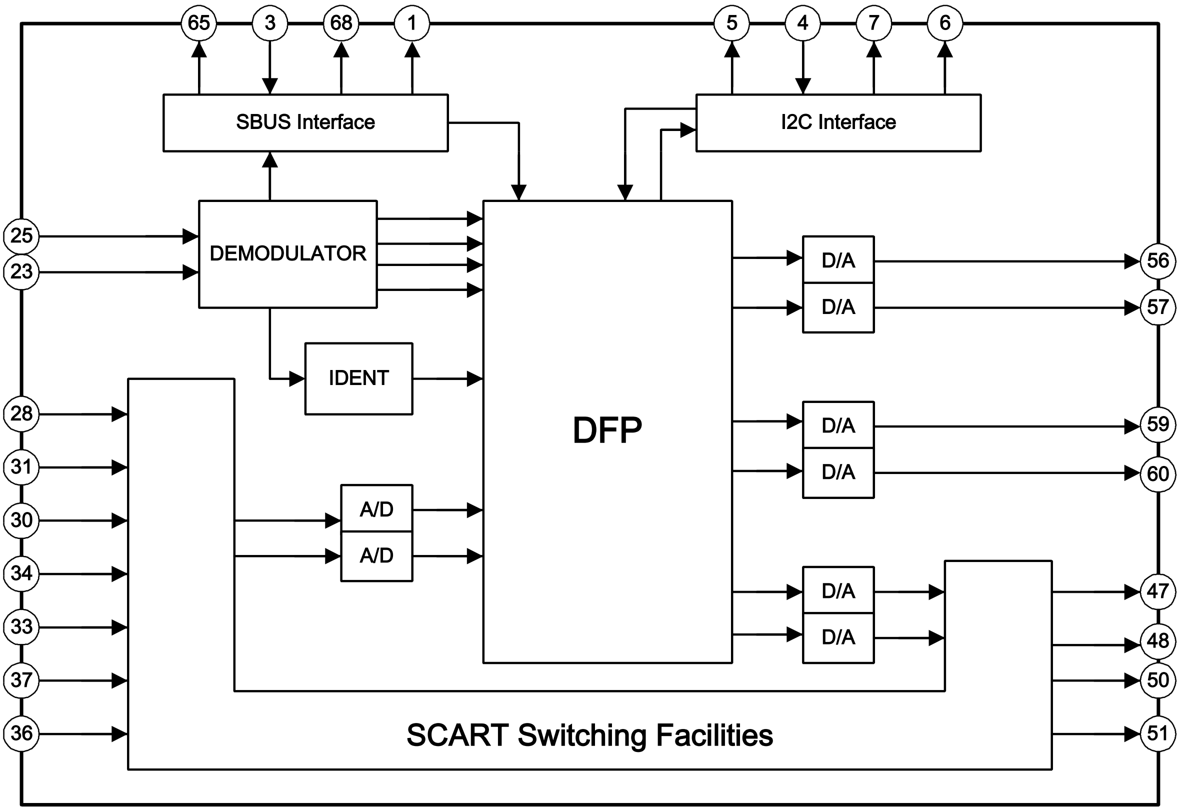
A BOARD IC1201 TDA7497


2
VOLUME
1
30K
14
OP AMP
9
MUTE/STBY PROTECTIONS
10
VOLUME
60K
5
30K
12
OP AMP
3
4

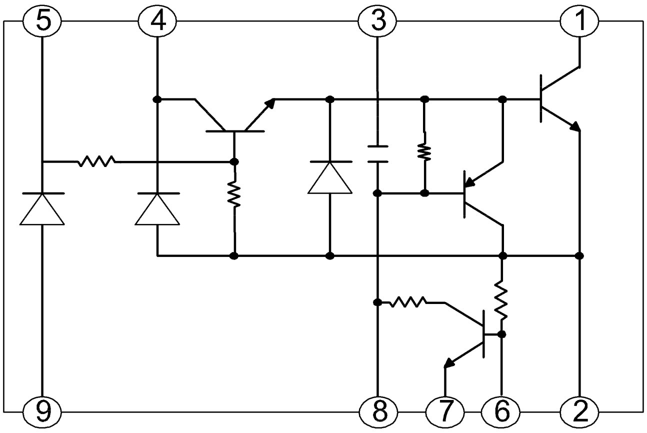
G BOARD IC6001 MCZ3001D


18
8
Remote
DVLD 15v/8v
Internal ref 5v
OFF Sel=34v
TSD
Driver Reg. 10v
14
Level Shift
16
1
Vsense
15
Control Logic
Latch
10
Centre
SS
Osc
12
11
F/B
Timer
5
OCP
9
7
4
3
2
6

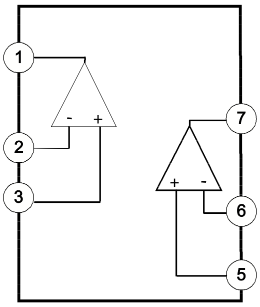
A BOARD IC2000 MSP3411G


65
3
68
1
5
4
7
6
SBUS Interface
I2C Interface
25
23
DEMODULATOR
IDENT
DFP
28
31
30
34
33
37
36
A/D
A/D
D/A
D/A
D/A
D/A
D/A
D/A
56
57
59
60
47
48
50
51
SCART Switching Facilities

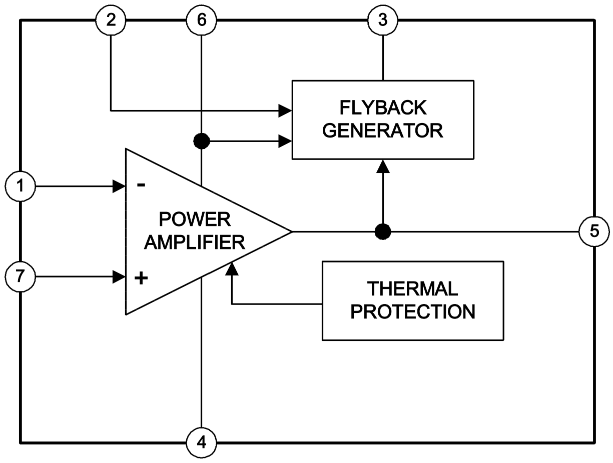
G BOARD IC6003 SE135N-LF4



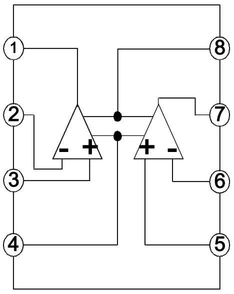
A BOARD IC5301/IC5302 LM393TD



A BOARD IC5400 STV9379


2
6
3
FLYBACK
GENERATOR
1
-
POWER
AMPLIFIER
7
+
5
THERMAL
PROTECTION
4

A BOARD IC5300 LM358N



SECTION 6
EXPLODED VIEWS

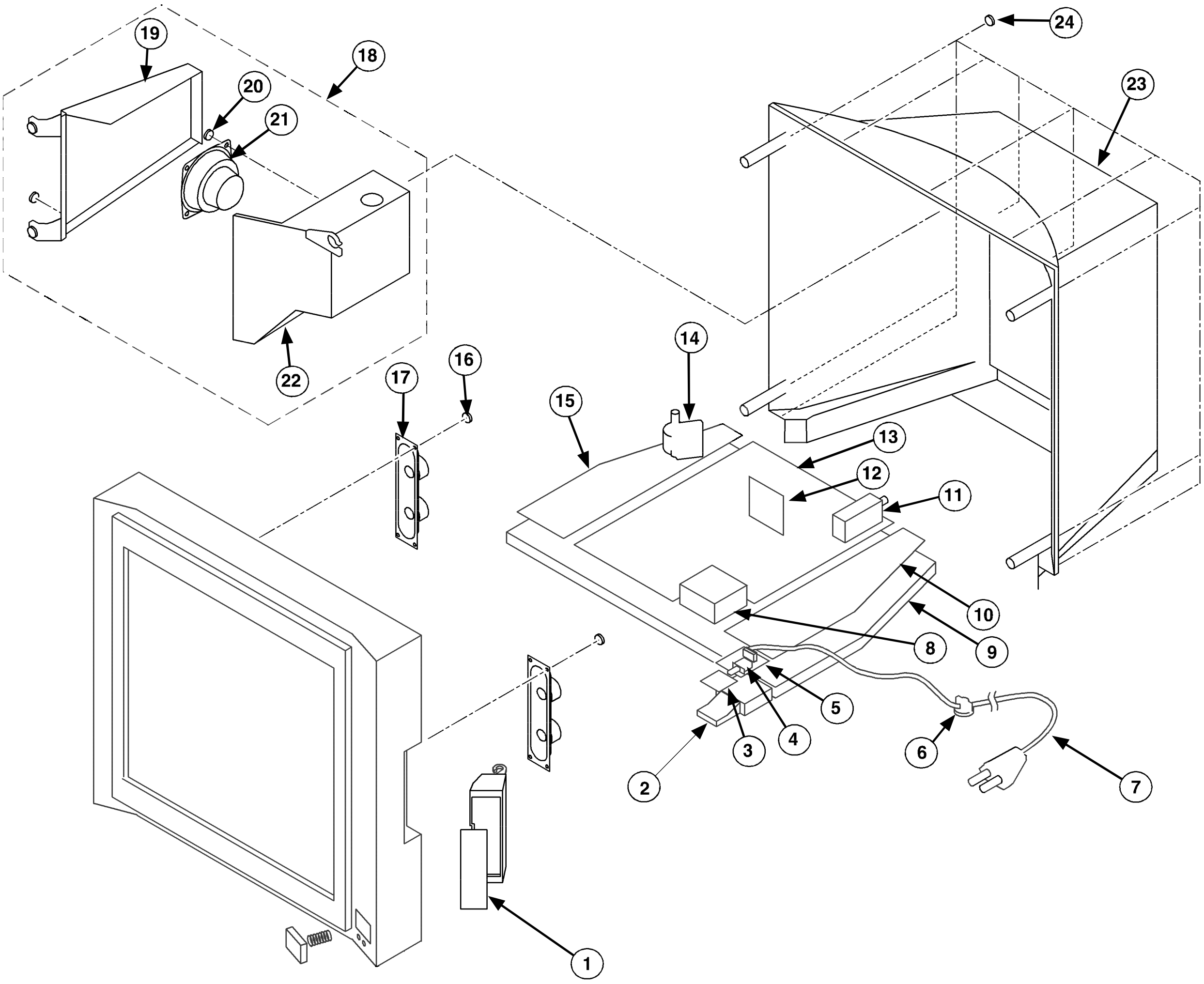
NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

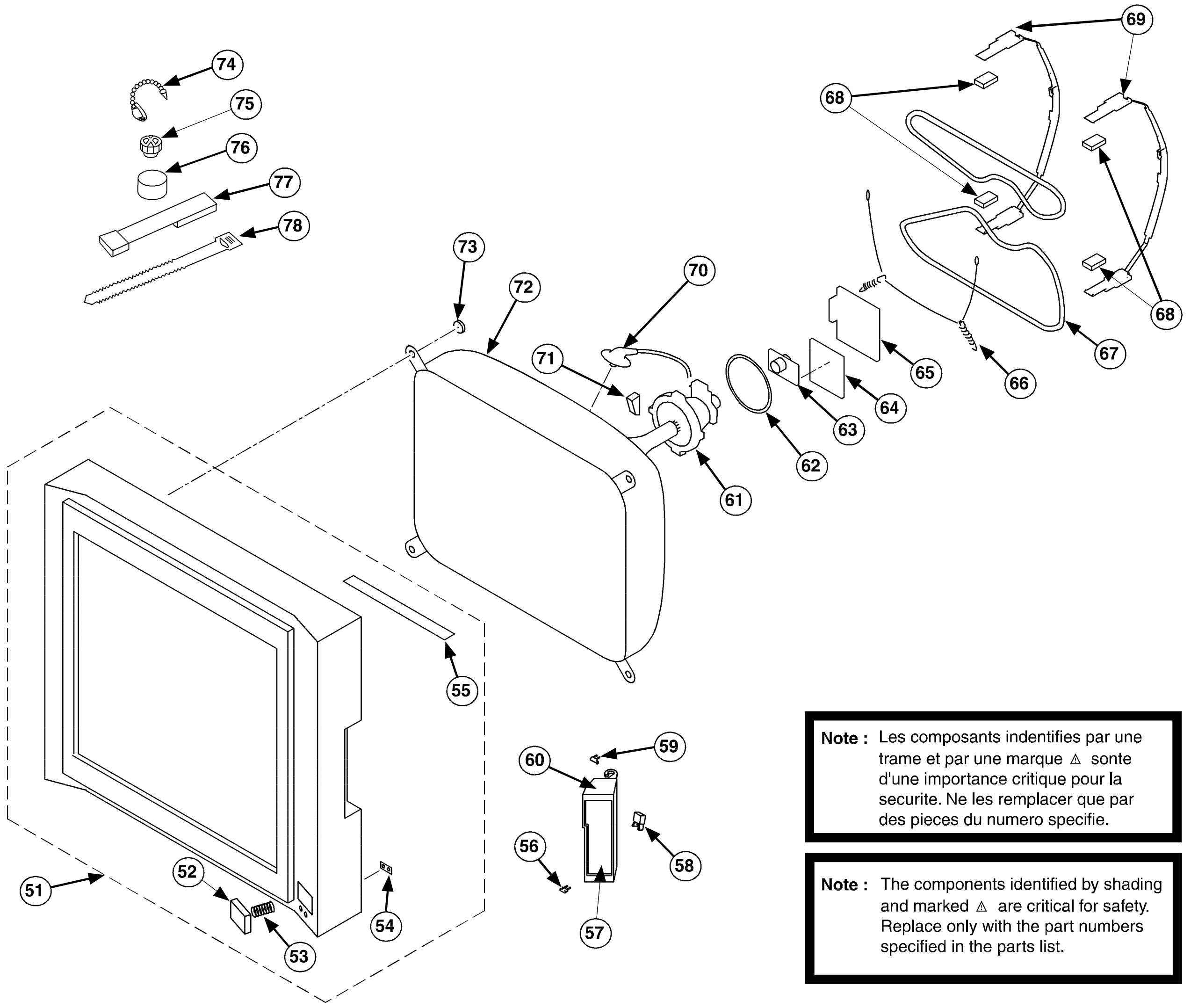
Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

6-1. Chassis



REF.NO.	PART.NO	DESCRIPTION	REMARK
1	*A-1647-043-A	H2 BOARD, COMPLETE	
2	*4-206-097-01	F4, H1 BRACKET	
3	*A-1646-243-A	H1 BOARD, COMPLETE	
4 ⚠	1-571-433-31	SWITCH, (AC POWER)	
5	*A-1625-000-A	F4 BOARD, COMPLETE	
6	*4-202-531-01	AC CORD LOCK (SC)	
7 ⚠	1-690-270-21	CORD, POWER (WITH CONNECTOR)	
8	1-424-855-11	COIL, CHOKE	
9	*4-206-106-01	BRACKET, MAIN	
10	*A-1637-024-A	G BOARD, COMPLETE	
11	8-598-533-01	FRONTEND BTF-EC411	
12	*A-1634-062-A	M BOARD, COMPLETE	
13	*A-1632-952-A	A BOARD, COMPLETE	
14 ⚠	1-453-340-31	TRANSFORMER ASSY, FLYBACK (NX-4522//Z2B4)	
15	*A-1640-432-A	D BOARD, COMPLETE	
16	7-685-663-71	SCREW +BVTP 4x16 TYPE 2 IT-3	
17	1-529-408-11	SPEAKER (4.2x24CM)	
18	*A-1678-191-C	WOOFER ASSY SP	19-22
19	*4-204-775-01	BAFFLE, WOOFER	
20	7-685-663-71	SCREW +BVTP 4x16 TYPE 2 IT-3	
21	1-529-417-11	SPEAKER (8CM)	
22	*4-204-776-01	BOX, WOOFER	
23	4-206-096-01	REAR COVER	
24	7-685-663-79	SCREW +BVTP 4x16 TYPE 2 IT-3	

6-2. Picture Tube



Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.		PART.NO	DESCRIPTION	REMARK
51		X-4200-730-1	BEZNET ASSY	52-55
52		4-205-720-02	POWER BUTTON	
53		4-204-426-01	SPRING	
54		4-204-726-01	GUIDE, LIGHT	
55		4-204-865-01	SHEET, BLOTTING	
56		3-022-410-01	DAMPER	
57		4-205-722-02	DOOR	
58		4-047-464-01	CATCHER, PUSH	
59		4-205-725-01	DOOR SPRING	
60		*4-205-723-01	DOOR BRACKET	
61		8-451-504-31	DEFLECTION YOKE (Y29RSC-S)	
62		1-452-896-11	COIL, NA ROTATION (RT200)	
63		8-453-011-41	NECK ASSY, (NA299-C)	
64		*A-1644-119-A	VM BOARD, COMPLETE	
65		*A-1638-158-A	C BOARD, COMPLETE	
66		4-369-318-21	SPRING, TENSION	
67	⚠	1-424-887-11	COIL, DEGAUSSING	
68		4-203-390-11	CUSHION, DGC	
69		*4-204-768-01	HOLDER, DGC (29″)	
70	⚠	1-251-946-11	CAP ASSY, HIGH-VOLTAGE	
71		3-704-495-01	SPACER, DY	
72	⚠	8-735-053-05	PICTURE TUBE (M68LNH060X)	
73		4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
74		4-308-870-00	CLIP, LEAD WIRE	
75		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
76		1-452-032-00	MAGNET, DISK; 10MM	
77		X-4387-214-1	PERMALLOY ASSY, CORRECTION	
78		3-701-007-00	BAND, BINDING	

SECTION 7
ELECTRICAL PARTS LIST

PARTS LISTING TABLE OF CONTENTS

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H2 BOARD COMPLETE Parts List : 49
F4 BOARD COMPLETE Parts List : 49
H1 BOARD COMPLETE Parts List : 49
A BOARD COMPLETE Parts List : 49
M BOARD COMPLETE Parts List : 59
G BOARD COMPLETE Parts List : 60
C BOARD COMPLETE Parts List : 62
D BOARD COMPLETE Parts List : 63
VM BOARD COMPLETE Parts List : 66
MISCELLANEOUS : 68
ACCESSORIES AND PACKAGING MATERIALS : 68

Note : Refer to the designated variant parts list when seeking a part indicated by an asterisk (*)
Parts indicated (XX) on the Schematic Diagram are not used in this model and
therefore do not appear in the Parts List.

*A-1647-043-A H2 Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< CAPACITOR >	
C2906	1-126-960-11	ELECT 1UF	20.00% 50V
C2907	1-126-960-11	ELECT 1UF	20.00% 50V
C2913	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2914	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
		< CONNECTOR >	
CN2900	1-779-947-11	TERMINAL BLOCK, S	
CN2906	*1-564-524-11	PLUG, CONNECTOR 9P	
CN2908	1-564-521-11	PLUG, CONNECTOR 6P	
		< JACK >	
J2900	1-750-264-11	JACK	
		< COIL >	
L0904	1-410-119-11	INDUCTOR 1MH	
L2900	1-535-143-61	LEAD, JUMPER (5.0MM)	
L2901	1-535-143-61	LEAD, JUMPER (5.0MM)	
L2902	1-535-143-61	LEAD, JUMPER (5.0MM)	
L2903	1-535-143-61	LEAD, JUMPER (5.0MM)	
		< RESISTOR >	
R912	1-535-143-61	LEAD, JUMPER (5.0MM)	
R0901	1-249-427-11	CARBON 6.8K 5%	1/4W
R0902	1-249-429-11	CARBON 10K 5%	1/4W
R0911	1-249-419-11	CARBON 1.5K 5%	1/4W
R0913	1-247-843-11	CARBON 3.3K 5%	1/4W
R0914	1-249-431-11	CARBON 15K 5%	1/4W
R2903	1-249-406-11	CARBON 120 5%	1/4W
R2904	1-249-406-11	CARBON 120 5%	1/4W
R2909	1-247-895-91	CARBON 470K 5%	1/4W
R2910	1-247-895-91	CARBON 470K 5%	1/4W
R2915	1-249-406-11	CARBON 120 5%	1/4W
R2916	1-249-406-11	CARBON 120 5%	1/4W
R2917	1-249-412-11	CARBON 390 5%	1/4W
R2918	1-249-412-11	CARBON 390 5%	1/4W
		< SWITCH >	
S0900	1-692-979-11	SWITCH, TACTILE	
S0901	1-692-979-11	SWITCH, TACTILE	
S0902	1-692-979-11	SWITCH, TACTILE	

*A-1625-000-A F4 Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	*4-374-846-01	COVER, CAPACITOR, CAP TYPE	
		< CAPACITOR >	
C6991 ⚠	1-113-924-11	CERAMIC 0.0047UF	20.00% 250V
		< CONNECTOR >	
CN6991	1-580-843-11	PIN, CONNECTOR (POWER)	
CN6992	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CN6993	1-695-915-11	TAB (CONTACT)	
		< FUSE >	
F6991 ⚠	1-576-232-11	FUSE (H.B.C.) 5A/250V	
	*1-533-725-11	HOLDER, FUSE (F6991)	
		< RESISTOR >	
R6991	1-202-719-00	SOLID 1M 10%	1/2W
		< SWITCH >	
S6991 ⚠	1-571-433-31	SWITCH (AC POWER)	
		< VARISTOR >	
VD6991	1-803-830-11	VARISTOR (ERZV14D621)	

*A-1646-243-A H1 Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-206-220-01	HOLDER, LED	
		< CAPACITOR >	
C0992	1-104-665-11	ELECT 100UF	20.00% 25V
C0993	1-102-114-00	CERAMIC 470PF	10.00% 50V
C0994	1-102-129-00	CERAMIC 0.01UF	10.00% 50V
		< CONNECTOR >	
CN0991	*1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D0991	8-719-109-89	DIODE RD5.6ESB2	
D0993	8-719-082-12	DIODE TLHK5190	
		< IC >	
IC0991	8-742-180-30	HYB IC SBX3081-51(30)	
		< RESISTOR >	
R0992	1-247-807-31	CARBON 100 5%	1/4W

*A-1632-952-A A Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-382-854-01	SCREW (M3X8), P, SW (+)	
		< CAPACITOR >	
C1001	1-126-933-11	ELECT 100UF	20.00% 16V
C1002	1-126-964-11	ELECT 10UF	20.00% 50V
C1004	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V

A

REF.NO.	PART.NO	DESCRIPTION	REMARK
C1006	1-126-933-11	ELECT 100UF	20.00% 16V
C1008	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C1009	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V
C1010	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V
C1014	1-126-933-11	ELECT 100UF	20.00% 16V
C1015	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C1018	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C1020	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1021	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1022	1-216-295-91	SHORT 0	
C2000	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2001	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2006	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2007	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2008	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2009	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2010	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2011	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2012	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2013	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2014	1-164-346-11	CERAMIC CHIP 1UF	16V
C2015	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2016	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2018	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2019	1-164-346-11	CERAMIC CHIP 1UF	16V
C2021	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2022	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2023	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2024	1-164-346-11	CERAMIC CHIP 1UF	16V
C2026	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2027	1-126-947-11	ELECT 47UF	20.00% 25V
C2028	1-126-947-11	ELECT 47UF	20.00% 25V
C2029	1-164-346-11	CERAMIC CHIP 1UF	16V
C2031	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2034	1-164-346-11	CERAMIC CHIP 1UF	16V
C2035	1-164-346-11	CERAMIC CHIP 1UF	16V
C2038	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2039	1-162-906-91	CERAMIC CHIP 1.5PF	0.25PF 50V
C2040	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2041	1-162-906-91	CERAMIC CHIP 1.5PF	0.25PF 50V
C2042	1-163-249-11	CERAMIC CHIP 82PF	5.00% 50V
C2043	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2044	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2046	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C2047	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2048	1-126-947-11	ELECT 47UF	20.00% 25V
C2049	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V
C2050	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C2051	1-126-964-11	ELECT 10UF	20.00% 50V
C2052	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2053	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
C2054	1-126-947-11	ELECT 47UF	20.00% 25V
C2055	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2057	1-126-964-11	ELECT 10UF	20.00% 50V
C2058	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2059	1-126-964-11	ELECT 10UF	20.00% 50V
C2060	1-126-947-11	ELECT 47UF	20.00% 25V
C2061	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2062	1-164-346-11	CERAMIC CHIP 1UF	16V
C2063	1-164-346-11	CERAMIC CHIP 1UF	16V
C2064	1-126-964-11	ELECT 10UF	20.00% 50V
C2065	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2066	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2069	1-127-715-91	CERAMIC CHIP 0.22UF	10.00% 16V
C2073	1-126-960-91	ELECT 1UF	20.00% 50V
C2074	1-126-960-91	ELECT 1UF	20.00% 50V
C2075	1-126-960-91	ELECT 1UF	20.00% 50V
C2077	1-126-960-91	ELECT 1UF	20.00% 50V
C2078	1-126-963-11	ELECT 4.7UF	20.00% 50V
C2079	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2080	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2081	1-115-414-11	CERAMIC CHIP 820PF	5.00% 25V
C2082	1-163-249-11	CERAMIC CHIP 82PF	5.00% 50V
C2083	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2084	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2085	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2086	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2087	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2088	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2089	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2090	1-126-947-11	ELECT 47UF	20.00% 25V
C2091	1-126-947-11	ELECT 47UF	20.00% 25V
C2092	1-126-947-11	ELECT 47UF	20.00% 25V
C2093	1-126-947-11	ELECT 47UF	20.00% 25V
C2094	1-126-947-11	ELECT 47UF	20.00% 25V
C2095	1-126-947-11	ELECT 47UF	20.00% 25V
C2096	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2500	1-126-952-11	ELECT 1000UF	20.00% 35V
C2502	1-104-666-11	ELECT 220UF	20.00% 25V
C2504	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2505	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C2506	1-126-972-11	ELECT 1000UF	20.00% 50V
C2507	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C2508	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C2509	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C2510	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
C2511	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2512	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2513	1-126-952-11	ELECT 1000UF	20.00% 35V
C2515	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V

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REF.NO.	PART.NO	DESCRIPTION	REMARK
C2516	1-126-953-11	ELECT 2200UF	20.00% 35V
C2517	1-126-960-11	ELECT 1UF	20.00% 50V
C2518	1-126-960-11	ELECT 1UF	20.00% 50V
C2519	1-126-959-11	ELECT 0.47UF	20.00% 50V
C2521	1-164-346-11	CERAMIC CHIP 1UF	16V
C2522	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2523	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C3101	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3102	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3103	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3104	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3105	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3106	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3107	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3108	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3109	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3112	1-126-964-11	ELECT 10UF	20.00% 50V
C3113	1-126-963-11	ELECT 4.7UF	20.00% 50V
C3114	1-126-963-11	ELECT 4.7UF	20.00% 50V
C3115	1-126-963-11	ELECT 4.7UF	20.00% 50V
C3116	1-126-964-11	ELECT 10UF	20.00% 50V
C3117	1-126-964-11	ELECT 10UF	20.00% 50V
C3118	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3119	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3200	1-126-964-11	ELECT 10UF	20.00% 50V
C3202	1-126-964-11	ELECT 10UF	20.00% 50V
C3203	1-126-964-11	ELECT 10UF	20.00% 50V
C3206	1-126-964-11	ELECT 10UF	20.00% 50V
C3208	1-163-227-91	CERAMIC CHIP 10PF	0.5PF 50V
C3209	1-163-227-91	CERAMIC CHIP 10PF	0.5PF 50V
C3210	1-126-964-11	ELECT 10UF	20.00% 50V
C3211	1-126-964-11	ELECT 10UF	20.00% 50V
C3212	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3213	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3214	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3215	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3216	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3217	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3218	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3219	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3220	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3221	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3222	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3223	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3224	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3225	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3226	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3227	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3228	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C3229	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C3230	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C3231	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C3232	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C3233	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C3234	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C3235	1-165-176-91	CERAMIC CHIP 47000PF	10.00% 16V
C3236	1-165-176-91	CERAMIC CHIP 47000PF	10.00% 16V
C3237	1-165-176-91	CERAMIC CHIP 47000PF	10.00% 16V
C3238	1-165-176-91	CERAMIC CHIP 47000PF	10.00% 16V
C3239	1-165-176-91	CERAMIC CHIP 47000PF	10.00% 16V
C3240	1-165-176-91	CERAMIC CHIP 47000PF	10.00% 16V
C3241	1-126-933-11	ELECT 100UF	20.00% 16V
C3242	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3243	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3244	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V
C3250	1-163-021-91	CERAMIC CHIP 10000PF	10.00% 50V
C3300	1-163-251-91	CERAMIC CHIP 100PF	5.00% 50V
C3309	1-126-964-11	ELECT 10UF	20.00% 50V
C3310	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C3406	1-126-964-11	ELECT 10UF	20.00% 50V
C5110	1-126-947-11	ELECT 47UF	20.00% 25V
C5111	1-126-964-11	ELECT 10UF	20.00% 50V
C5112	1-126-964-11	ELECT 10UF	20.00% 50V
C5114	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5115	1-126-964-11	ELECT 10UF	20.00% 50V
C5116	1-126-964-11	ELECT 10UF	20.00% 50V
C5117	1-126-964-11	ELECT 10UF	20.00% 50V
C5118	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5119	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C5120	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C5121	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C5122	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5123	1-126-964-11	ELECT 10UF	20.00% 50V
C5124	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5125	1-126-964-11	ELECT 10UF	20.00% 50V
C5200	1-136-177-00	FILM 1UF	5.00% 50V
C5201	1-163-989-11	CERAMIC CHIP 0.033UF	10.00% 25V
C5202	1-126-947-11	ELECT 47UF	20.00% 25V
C5203	1-136-177-00	FILM 1UF	5.00% 50V
C5204	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C5205	1-163-989-11	CERAMIC CHIP 0.033UF	10.00% 25V
C5206	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C5207	1-126-947-11	ELECT 47UF	20.00% 25V
C5209	1-163-127-00	CERAMIC CHIP 270PF	5.00% 50V
C5210	1-164-336-11	CERAMIC CHIP 0.33UF	25V
C5211	1-136-165-00	FILM 0.1UF	5.00% 50V
C5212	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C5213	1-126-947-11	ELECT 47UF	20.00% 25V
C5214	1-126-964-11	ELECT 10UF	20.00% 50V
C5215	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V

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REF.NO.	PART.NO	DESCRIPTION		REMARK	
C5216	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C5217	1-136-165-00	FILM	0.1UF	5.00%	50V
C5218	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
C5219	1-126-964-11	ELECT	10UF	20.00%	50V
C5300	1-126-933-11	ELECT	100UF	20.00%	16V
C5301	1-126-947-11	ELECT	47UF	20.00%	25V
C5302	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C5303	1-136-153-00	FILM	0.01UF	5.00%	50V
C5304	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C5305	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C5306	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C5307	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C5309	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C5310	1-136-165-00	FILM	0.1UF	5.00%	50V
C5311	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C5312	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C5313	1-107-714-11	ELECT	10UF	20.00%	50V
C5314	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5316	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C5318	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C5319	1-136-347-11	FILM	0.0047UF	5.00%	630V
C5320	1-129-716-00	FILM	0.015UF	5.00%	630V
C5321	1-136-347-11	FILM	0.0047UF	5.00%	630V
C5322	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C5323	1-136-159-00	FILM	0.033UF	5.00%	50V
C5400	1-126-964-11	ELECT	10UF	20.00%	50V
C5401	1-107-714-11	ELECT	10UF	20.00%	50V
C5403	1-128-527-11	ELECT	330UF	20.00%	25V
C5404	1-102-228-00	CERAMIC	470PF	10.00%	500V
C5405	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C5406	1-129-702-00	MYLAR	0.001UF	10.00%	400V
C5407	1-128-527-11	ELECT	330UF	20.00%	25V
C5409	1-126-968-11	ELECT	100UF	20.00%	50V
C5410	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C5411	1-137-401-11	MYLAR	0.22UF	10.00%	100V
C5412	1-106-220-00	MYLAR	0.1UF	10.00%	100V
C5413	1-130-785-11	MYLAR	0.47UF	10.00%	100V
C5801	1-126-963-11	ELECT	4.7UF	20.00%	50V
C5850	1-126-963-11	ELECT	4.7UF	20.00%	50V
C5851	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5853	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5854	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5858	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5859	1-126-960-11	ELECT	1UF	20.00%	50V
C5860	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C5868	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C5872	1-164-346-11	CERAMIC CHIP	1UF		16V
C5873	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C5888	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C5889	1-126-964-11	ELECT	10UF	20.00%	50V
C5890	1-164-227-11	CERAMIC CHIP	0.022UF	10.00%	25V
C5891	1-137-581-11	FILM	0.1UF	5.00%	100V
C5892	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5893	1-126-947-11	ELECT	47UF	20.00%	25V
C5894	1-126-947-11	ELECT	47UF	20.00%	25V
C5895	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C5896	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C5897	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5898	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C5899	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C6200	1-126-933-11	ELECT	100UF	20.00%	16V
C6201	1-126-935-11	ELECT	470UF	20.00%	16V
C6202	1-126-933-11	ELECT	100UF	20.00%	16V
C6203	1-126-935-11	ELECT	470UF	20.00%	10V
C6204	1-126-933-11	ELECT	100UF	20.00%	16V
C6205	1-126-935-11	ELECT	470UF	20.00%	10V
C6206	1-126-933-11	ELECT	100UF	20.00%	16V
C6207	1-126-933-11	ELECT	100UF	20.00%	16V
C6208	1-126-933-11	ELECT	100UF	20.00%	16V
C6209	1-126-933-11	ELECT	100UF	20.00%	16V
C6210	1-126-935-11	ELECT	470UF	20.00%	16V
C6211	1-126-947-11	ELECT	47UF	20.00%	25V
C6212	1-126-933-11	ELECT	100UF	20.00%	16V
C6213	1-126-933-11	ELECT	100UF	20.00%	16V
C6214	1-126-933-11	ELECT	100UF	20.00%	16V
C7002	1-126-947-11	ELECT	47UF	20.00%	25V
C7004	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C7008	1-162-919-11	CERAMIC CHIP	22PF	5.00%	50V
C7016	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C7018	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7019	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7020	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7021	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7022	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7023	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7030	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7031	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7032	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7038	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C7039	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C7050	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C7051	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7052	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7053	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C7054	1-126-963-11	ELECT	4.7UF	20.00%	50V
C7055	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C7056	1-126-933-11	ELECT	100UF	20.00%	16V
C7057	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C7058	1-126-933-11	ELECT	100UF	20.00%	16V
C7059	1-126-933-11	ELECT	100UF	20.00%	16V

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REF.NO.	PART.NO	DESCRIPTION	REMARK
C7060	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C7061	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7062	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7063	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7064	1-126-947-11	ELECT 47UF	20.00% 25V
C7065	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C7067	1-126-947-11	ELECT 47UF	20.00% 25V
C7068	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C7069	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C7070	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C7071	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
		< CONNECTOR >	
CN0101	1-823-330-11	CONNECTOR, BOARD TO BOARD 40P	
CN0102	*1-564-520-11	PLUG, CONNECTOR 5P	
CN0103	*1-564-507-11	PLUG, CONNECTOR 4P	
CN1000	1-770-130-11	CONNECTOR (SQUARE TYPE) 21P	
CN1001	1-766-296-21	CONNECTOR, DUAL SCART	
CN2000	*1-564-512-11	PLUG, CONNECTOR 9P	
CN2500	*1-564-506-11	PLUG, CONNECTOR 3P	
CN2501	*1-564-507-11	PLUG, CONNECTOR 4P	
CN2502	*1-564-509-11	PLUG, CONNECTOR 6P	
CN5002	*1-564-510-11	PLUG, CONNECTOR 7P	
CN5100	*1-564-506-11	PLUG, CONNECTOR 3P	
CN5200	*1-564-506-11	PLUG, CONNECTOR 3P	
CN5801	*1-764-333-11	PLUG, CONNECTOR 10P	
CN6200	*1-564-507-11	PLUG, CONNECTOR 4P	
CN6202	*1-564-516-11	PLUG, CONNECTOR 13P	
CN6203	1-695-915-11	TAB (CONTACT)	
CN7000	*1-564-508-11	PLUG, CONNECTOR 5P	
CN7001	*1-564-512-11	PLUG, CONNECTOR 9P	
CN8001	1-766-281-11	PIN, CONNECTOR (PC BOARD) 8P	
		< DIODE >	
D0101	8-719-923-84	DIODE MTZJ-T-77-13B	
D0104	8-719-109-89	DIODE RD5.6ESB2	
D0110	8-719-109-89	DIODE RD5.6ESB2	
D0111	8-719-929-15	DIODE HZS9.1NB2	
D0112	8-719-923-84	DIODE MTZJ-T-77-13B	
D0113	8-719-921-88	DIODE MTZJ-13B	
D1006	8-719-109-89	DIODE RD5.6ESB2	
D2014	8-719-929-15	DIODE HZS9.1NB2	
D2015	8-719-929-15	DIODE HZS9.1NB2	
D2016	8-719-050-38	DIODE M1MA152WK-T1	
D2018	8-719-929-15	DIODE HZS9.1NB2	
D2019	8-719-929-15	DIODE HZS9.1NB2	
D2500	8-719-050-38	DIODE M1MA152WK-T1	
D2502	8-719-109-89	DIODE RD5.6ESB2	
D2503	8-719-050-38	DIODE M1MA152WK-T1	
D3001	8-719-929-15	DIODE HZS9.1NB2	
D3003	8-719-929-15	DIODE HZS9.1NB2	
D3005	8-719-929-15	DIODE HZS9.1NB2	
D3007	8-719-109-89	DIODE RD5.6ESB2	
D3008	8-719-109-89	DIODE RD5.6ESB2	
D3009	8-719-929-15	DIODE HZS9.1NB2	
D3011	8-719-929-15	DIODE HZS9.1NB2	
D3013	8-719-929-15	DIODE HZS9.1NB2	
D3015	8-719-929-15	DIODE HZS9.1NB2	
D3017	8-719-109-89	DIODE RD5.6ESB2	
D3018	8-719-109-89	DIODE RD5.6ESB2	
D3019	8-719-929-15	DIODE HZS9.1NB2	
D3021	8-719-929-15	DIODE HZS9.1NB2	
D3023	8-719-109-89	DIODE RD5.6ESB2	
D3024	8-719-929-15	DIODE HZS9.1NB2	
D3026	8-719-929-15	DIODE HZS9.1NB2	
D3028	8-719-929-15	DIODE HZS9.1NB2	
D3201	8-719-109-89	DIODE RD5.6ESB2	
D5103	8-719-110-88	DIODE RD39ES-B2	
D5104	8-719-109-89	DIODE RD5.6ESB2	
D5200	8-719-991-33	DIODE 1SS133T-77	
D5201	1-535-143-61	LEAD, JUMPER (5.0MM)	
D5202	8-719-050-38	DIODE M1MA152WK-T1	
D5300	8-719-081-97	DIODE MMDL914T1	
D5303	8-719-081-97	DIODE MMDL914T1	
D5304	8-719-081-97	DIODE MMDL914T1	
D5305	8-719-991-33	DIODE 1SS133T-77	
D5306	8-719-302-43	DIODE EL1Z	
D5307	8-719-987-87	DIODE ERA85-009	
D5308	8-719-081-97	DIODE MMDL914T1	
D5309	8-719-081-97	DIODE MMDL914T1	
D5400	8-719-982-03	DIODE MTZJ-3.6A	
D5401	8-719-050-38	DIODE M1MA152WK-T1	
D5404	8-719-110-41	DIODE RD15ES-B2	
D5405	8-719-908-03	DIODE GP08D	
D5807	8-719-929-15	DIODE HZS9.1NB2	
D5809	8-719-050-38	DIODE M1MA152WK-T1	
D5811	8-719-081-97	DIODE MMDL914T1	
D5812	8-719-081-97	DIODE MMDL914T1	
D6200	8-719-063-70	DIODE D1NL20U	
D7004	8-719-929-15	DIODE HZS9.1NB2	
		< FERRITE BEAD >	
FB3001	1-414-760-21	FERRITE 0UH	
		< FILTER >	
FL2000	1-239-803-11	FILTER, EMI	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< IC >	
IC2000	6-701-031-01	IC MSP3411G-QA-B10	
IC2001	8-759-100-96	IC UPC4558G2	
IC2500	8-759-831-56	IC TDA7497	
IC3100	6-700-504-01	IC SDA9488X-B23GEG	
IC3200	6-700-505-01	IC VPS9402-A32GEG	
IC5103	8-752-072-94	IC CXA1875AM-T4	
IC5104	8-759-803-42	IC LA6500-FA	
IC5200	8-759-595-52	IC CXA8070AP	
IC5201	8-759-903-16	IC LM318P	
IC5300	8-759-008-70	IC LM358N	
IC5301	8-759-450-95	IC LM393N	
IC5302	8-759-450-95	IC LM393N	
IC5400	8-759-192-71	IC STV9379	
IC6200	8-759-648-19	IC L7809CV/LSY	
IC6201	8-759-648-20	IC L7805CV/LSY	
IC6202	8-759-445-59	IC BA033T	
IC6203	8-759-098-24	IC PQ30RV11	
IC6205	8-759-394-35	IC BA12T	
IC6206	8-759-991-41	IC LM78L05ACZ	
IC6207	8-759-445-59	IC BA033T	
IC7002	8-752-090-88	IC CXA2100AQ-TL	
		< JACK >	
J2000	1-784-632-11	JACK, PIN 2P	
		< COIL >	
L1000	1-216-809-11	RES-CHIP 100 5%	1/16W
L1001	1-216-809-11	RES-CHIP 100 5%	1/16W
L1002	1-414-934-21	INDUCTOR 10UH	
L1003	1-414-934-21	INDUCTOR 10UH	
L1005	1-414-934-21	INDUCTOR 10UH	
L2000	1-414-934-21	INDUCTOR 10UH	
L2001	1-414-934-21	INDUCTOR 10UH	
L2007	1-408-602-31	INDUCTOR 8.2UH	
L2008	1-216-295-91	SHORT 0	
L2009	1-216-295-91	SHORT 0	
L2010	1-414-928-21	INDUCTOR 1UH	
L2012	1-414-934-21	INDUCTOR 10UH	
L2013	1-414-928-21	INDUCTOR 1UH	
L2014	1-408-602-31	INDUCTOR 8.2UH	
L2500	1-535-143-61	LEAD, JUMPER (5.0MM)	
L2501	1-535-143-61	LEAD, JUMPER (5.0MM)	
L3000	1-216-295-91	SHORT 0	
L3004	1-216-295-91	SHORT 0	
L3005	1-216-295-91	SHORT 0	
L3006	1-216-295-91	SHORT 0	
L3007	1-216-295-91	SHORT 0	

REF.NO.	PART.NO	DESCRIPTION	REMARK
L3008	1-216-295-91	SHORT 0	
L3009	1-216-295-91	SHORT 0	
L3010	1-216-295-91	SHORT 0	
L3011	1-216-295-91	SHORT 0	
L3012	1-216-295-91	SHORT 0	
L3105	1-412-006-31	INDUCTOR 10UH	
L3106	1-412-006-31	INDUCTOR 10UH	
L3107	1-412-006-31	INDUCTOR 10UH	
L3200	1-412-006-31	INDUCTOR 10UH	
L3202	1-412-006-31	INDUCTOR 10UH	
L3203	1-412-006-31	INDUCTOR 10UH	
L3206	1-412-006-31	INDUCTOR 10UH	
L3208	1-412-006-31	INDUCTOR 10UH	
L3300	1-412-006-31	INDUCTOR 10UH	
L5300	1-406-989-21	INDUCTOR 10MH	
L5301	1-406-989-21	INDUCTOR 10MH	
L5400	1-412-524-11	INDUCTOR 8.2UH	
L5898	1-414-934-21	INDUCTOR 10UH	
L5899	1-414-934-21	INDUCTOR 10UH	
L7001	1-414-934-21	INDUCTOR 10UH	
L7009	1-414-934-21	INDUCTOR 10UH	
L7010	1-414-934-21	INDUCTOR 10UH	
L7011	1-414-934-21	INDUCTOR 10UH	
L7012	1-414-934-21	INDUCTOR 10UH	
		< TRANSISTOR >	
Q1000	8-729-010-05	TRANSISTOR MSB709-RT1	
Q1001	8-729-010-29	TRANSISTOR MSD601-RST1	
Q1004	8-729-010-05	TRANSISTOR MSB709-RT1	
Q1005	8-729-421-19	TRANSISTOR UN2213	
Q1006	8-729-010-05	TRANSISTOR MSB709-RT1	
Q2000	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2002	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2003	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2004	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2005	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2501	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2502	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2503	8-729-010-29	TRANSISTOR MSD601-RST1	
Q3200	8-729-010-29	TRANSISTOR MSD601-RST1	
Q3201	8-729-010-29	TRANSISTOR MSD601-RST1	
Q3202	8-729-010-05	TRANSISTOR MSB709-RT1	
Q3204	8-729-010-05	TRANSISTOR MSB709-RT1	
Q3300	8-729-010-29	TRANSISTOR MSD601-RST1	
Q3301	8-729-010-05	TRANSISTOR MSB709-RT1	
Q3302	8-729-010-05	TRANSISTOR MSB709-RT1	
Q3500	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q3501	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q5101	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5200	8-729-010-29	TRANSISTOR MSD601-RST1	

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REF.NO.	PART.NO	DESCRIPTION	REMARK
Q5201	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5202	8-729-045-04	TRANSISTOR 2SC5511	
Q5203	8-729-044-59	TRANSISTOR 2SA1837(LBS2SON)	
Q5204	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5205	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5300	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5301	8-729-053-33	TRANSISTOR IRF614-037	
Q5302	8-729-140-97	TRANSISTOR 2SB734-34	
Q5303	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5304	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5305	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5306	8-729-140-97	TRANSISTOR 2SB734-34	
Q5400	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5401	8-729-421-19	TRANSISTOR UN2213	
Q5402	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5403	8-729-421-19	TRANSISTOR UN2213	
Q5404	8-729-039-68	TRANSISTOR IRF620	
Q5813	8-729-421-19	TRANSISTOR UN2213	
Q5814	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5815	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5816	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7003	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7009	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7011	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7012	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7013	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7014	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7015	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7016	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7017	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7018	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7019	8-729-010-29	TRANSISTOR MSD601-RST1	
		< RESISTOR >	
JR101	1-216-295-91	SHORT 0	
JR105	1-216-295-91	SHORT 0	
JR134	1-216-295-91	SHORT 0	
JR2000	1-216-295-91	SHORT 0	
JR2001	1-216-295-91	SHORT 0	
R0101	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R0102	1-216-827-11	RES-CHIP 3.3K 5% 1/16W	
R0103	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R0104	1-216-827-11	RES-CHIP 3.3K 5% 1/16W	
R0105	1-216-025-11	RES-CHIP 100 5% 1/10W	
R0107	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1000	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R1001	1-216-001-00	RES-CHIP 10 5% 1/10W	
R1002	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R1003	1-216-864-11	SHORT 0	

REF.NO.	PART.NO	DESCRIPTION	REMARK
R1004	1-216-864-11	SHORT 0	
R1005	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R1006	1-216-051-00	RES-CHIP 1.2K 5% 1/10W	
R1007	1-414-813-11	FERRITE 0UH	
R1008	1-216-295-91	SHORT 0	
R1009	1-216-295-91	SHORT 0	
R1010	1-216-295-91	SHORT 0	
R1014	1-216-295-91	SHORT 0	
R1017	1-216-822-11	RES-CHIP 1.2K 5% 1/16W	
R1019	1-216-295-91	SHORT 0	
R1021	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R1022	1-216-839-91	RES-CHIP 33K 5% 1/16W	
R1023	1-216-849-11	RES-CHIP 220K 5% 1/16W	
R1024	1-216-839-11	RES-CHIP 33K 5% 1/16W	
R1025	1-216-837-11	RES-CHIP 22K 5% 1/16W	
R1026	1-216-817-11	RES-CHIP 470 5% 1/16W	
R2017	1-216-853-11	RES-CHIP 470K 5% 1/16W	
R2020	1-216-853-11	RES-CHIP 470K 5% 1/16W	
R2023	1-216-853-11	RES-CHIP 470K 5% 1/16W	
R2026	1-216-853-11	RES-CHIP 470K 5% 1/16W	
R2029	1-216-853-11	RES-CHIP 470K 5% 1/16W	
R2032	1-216-853-11	RES-CHIP 470K 5% 1/16W	
R2035	1-216-853-11	RES-CHIP 470K 5% 1/16W	
R2038	1-216-853-11	RES-CHIP 470K 5% 1/16W	
R2041	1-216-853-11	RES-CHIP 470K 5% 1/16W	
R2043	1-216-829-91	RES-CHIP 4.7K 5% 1/16W	
R2044	1-216-853-11	RES-CHIP 470K 5% 1/16W	
R2047	1-216-853-11	RES-CHIP 470K 5% 1/16W	
R2048	1-216-837-11	RES-CHIP 22K 5% 1/16W	
R2050	1-216-845-11	RES-CHIP 100K 5% 1/16W	
R2051	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R2052	1-216-837-11	RES-CHIP 22K 5% 1/16W	
R2053	1-216-817-11	RES-CHIP 470 5% 1/16W	
R2054	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R2055	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R2057	1-216-025-11	RES-CHIP 100 5% 1/10W	
R2058	1-216-025-11	RES-CHIP 100 5% 1/10W	
R2059	1-216-829-11	RES-CHIP 4.7K 5% 1/16W	
R2060	1-216-829-11	RES-CHIP 4.7K 5% 1/16W	
R2061	1-216-829-11	RES-CHIP 4.7K 5% 1/16W	
R2062	1-216-829-11	RES-CHIP 4.7K 5% 1/16W	
R2063	1-216-829-11	RES-CHIP 4.7K 5% 1/16W	
R2064	1-247-847-91	CARBON 4.7K 5% 1/4W	
R2065	1-216-837-11	RES-CHIP 22K 5% 1/16W	
R2066	1-216-829-11	RES-CHIP 4.7K 5% 1/16W	
R2067	1-216-829-11	RES-CHIP 4.7K 5% 1/16W	
R2068	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R2069	1-216-837-11	RES-CHIP 22K 5% 1/16W	
R2070	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R2071	1-216-839-91	RES-CHIP 33K 5% 1/16W	

REF.NO.	PART.NO	DESCRIPTION			REMARK
R2072	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2073	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2074	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2075	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2076	1-216-839-91	RES-CHIP	33K	5%	1/16W
R2077	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2078	1-216-025-11	RES-CHIP	100	5%	1/10W
R2079	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2080	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R2081	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2083	1-216-817-11	RES-CHIP	470	5%	1/16W
R2084	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2085	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2086	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2087	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2088	1-216-041-00	RES-CHIP	470	5%	1/10W
R2089	1-216-041-00	RES-CHIP	470	5%	1/10W
R2092	1-216-039-00	RES-CHIP	390	5%	1/10W
R2093	1-216-039-00	RES-CHIP	390	5%	1/10W
R2094	1-216-039-00	RES-CHIP	390	5%	1/10W
R2095	1-216-039-00	RES-CHIP	390	5%	1/10W
R2096	1-216-039-00	RES-CHIP	390	5%	1/10W
R2097	1-216-039-00	RES-CHIP	390	5%	1/10W
R2098	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2099	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2500	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2502	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R2503	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R2504	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2507	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2509	1-249-417-11	CARBON	1K	5%	1/4W
R2511	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2515	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2516	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2517	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2518	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2519	1-216-857-11	RES-CHIP	1M	5%	1/16W
R2520	1-216-025-11	RES-CHIP	100	5%	1/10W
R2912	1-216-295-91	SHORT	0		
R2914	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2921	1-216-295-91	SHORT	0		
R2924	1-216-295-91	SHORT	0		
R2927	1-216-295-91	SHORT	0		
R2930	1-216-295-91	SHORT	0		
R2933	1-216-295-91	SHORT	0		
R2936	1-216-295-91	SHORT	0		
R2939	1-216-295-91	SHORT	0		
R2942	1-216-295-91	SHORT	0		
R2945	1-216-295-91	SHORT	0		
R3000	1-216-025-11	RES-CHIP	100	5%	1/10W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R3001	1-216-022-00	RES-CHIP	75	5%	1/10W
R3009	1-216-025-11	RES-CHIP	100	5%	1/10W
R3010	1-216-022-00	RES-CHIP	75	5%	1/10W
R3011	1-216-025-11	RES-CHIP	100	5%	1/10W
R3012	1-216-022-00	RES-CHIP	75	5%	1/10W
R3013	1-216-025-11	RES-CHIP	100	5%	1/10W
R3014	1-216-022-00	RES-CHIP	75	5%	1/10W
R3015	1-216-022-00	RES-CHIP	75	5%	1/10W
R3016	1-216-025-11	RES-CHIP	100	5%	1/10W
R3017	1-216-022-00	RES-CHIP	75	5%	1/10W
R3018	1-216-025-11	RES-CHIP	100	5%	1/10W
R3019	1-216-022-00	RES-CHIP	75	5%	1/10W
R3020	1-216-025-11	RES-CHIP	100	5%	1/10W
R3021	1-216-022-00	RES-CHIP	75	5%	1/10W
R3022	1-216-025-11	RES-CHIP	100	5%	1/10W
R3023	1-216-022-00	RES-CHIP	75	5%	1/10W
R3024	1-216-025-11	RES-CHIP	100	5%	1/10W
R3025	1-216-022-00	RES-CHIP	75	5%	1/10W
R3026	1-216-022-00	RES-CHIP	75	5%	1/10W
R3027	1-216-025-11	RES-CHIP	100	5%	1/10W
R3028	1-216-022-00	RES-CHIP	75	5%	1/10W
R3029	1-216-045-00	RES-CHIP	680	5%	1/10W
R3030	1-216-022-00	RES-CHIP	75	5%	1/10W
R3031	1-216-022-00	RES-CHIP	75	5%	1/10W
R3032	1-216-022-00	RES-CHIP	75	5%	1/10W
R3033	1-216-025-11	RES-CHIP	100	5%	1/10W
R3034	1-216-022-00	RES-CHIP	75	5%	1/10W
R3035	1-216-025-11	RES-CHIP	100	5%	1/10W
R3036	1-216-022-00	RES-CHIP	75	5%	1/10W
R3037	1-216-045-00	RES-CHIP	680	5%	1/10W
R3104	1-216-295-91	SHORT	0		
R3110	1-216-025-11	RES-CHIP	100	5%	1/10W
R3111	1-216-025-11	RES-CHIP	100	5%	1/10W
R3112	1-216-295-91	SHORT	0		
R3218	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3219	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3220	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3221	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3222	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3223	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3225	1-216-025-11	RES-CHIP	100	5%	1/10W
R3226	1-216-025-11	RES-CHIP	100	5%	1/10W
R3229	1-216-025-91	RES-CHIP	100	5%	1/10W
R3230	1-216-025-11	RES-CHIP	100	5%	1/10W
R3233	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3234	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3235	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R3236	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R3237	1-216-797-11	RES-CHIP	10	5%	1/16W
R3238	1-216-797-11	RES-CHIP	10	5%	1/16W

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REF.NO.	PART.NO	DESCRIPTION			REMARK
R3305	1-216-025-11	RES-CHIP	100	5%	1/10W
R3306	1-216-025-11	RES-CHIP	100	5%	1/10W
R3312	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3313	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3318	1-216-025-11	RES-CHIP	100	5%	1/10W
R3319	1-216-025-11	RES-CHIP	100	5%	1/10W
R3320	1-216-025-11	RES-CHIP	100	5%	1/10W
R3321	1-216-864-11	SHORT	0		
R3322	1-216-864-11	SHORT	0		
R3323	1-216-813-11	RES-CHIP	220	5%	1/16W
R3500	1-216-834-91	RES-CHIP	12K	5%	1/16W
R3501	1-216-834-91	RES-CHIP	12K	5%	1/16W
R3504	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3505	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3603	1-216-295-91	SHORT	0		
R5118	1-249-413-11	CARBON	470	5%	1/4W
R5119	1-216-840-11	RES-CHIP	39K	5%	1/16W
R5122	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5125	1-216-836-11	RES-CHIP	18K	5%	1/16W
R5126	1-249-413-11	CARBON	470	5%	1/4W
R5128	1-216-809-11	RES-CHIP	100	5%	1/16W
R5129	1-216-809-11	RES-CHIP	100	5%	1/16W
R5130	1-216-809-11	RES-CHIP	100	5%	1/16W
R5131	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5132	1-216-809-11	RES-CHIP	100	5%	1/16W
R5133	1-216-809-11	RES-CHIP	100	5%	1/16W
R5137	1-216-809-11	RES-CHIP	100	5%	1/16W
R5138	1-216-809-11	RES-CHIP	100	5%	1/16W
R5139	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5140	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5141	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5143	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5144	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5145	1-216-809-11	RES-CHIP	100	5%	1/16W
R5147	1-216-809-11	RES-CHIP	100	5%	1/16W
R5150	1-249-414-11	CARBON	560	5%	1/4W
R5151	1-249-454-11	CARBON	3.9	5%	1/4W
R5152	1-249-413-11	CARBON	470	5%	1/4W
R5153	1-249-393-11	CARBON	10	5%	1/4W
R5154	1-216-833-91	RES-CHIP	10K	5%	1/16W
R5155	1-249-421-11	CARBON	2.2K	5%	1/4W
R5156	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5157	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R5201	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R5203	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R5204	1-216-809-11	RES-CHIP	100	5%	1/16W
R5206	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R5207	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5208	1-212-849-00	FUSIBLE	4.7	5%	1/4W
R5209	1-216-809-11	RES-CHIP	100	5%	1/16W
R5210	1-216-845-11	RES-CHIP	100K	5%	1/16W
R5211	1-216-845-11	RES-CHIP	100K	5%	1/16W
R5214	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R5215	1-216-025-11	RES-CHIP	100	5%	1/10W
R5217	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R5218	1-260-321-51	CARBON	270	5%	1/2W
R5219	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R5220	1-215-886-11	METAL OXIDE	100	5%	2W
R5222	1-216-678-11	METAL CHIP	13K	0.5%	1/10W
R5223	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R5225	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5226	1-212-849-00	FUSIBLE	4.7	5%	1/4W
R5227	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5228	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5229	1-216-837-11	RES-CHIP	22K	5%	1/16W
R5230	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R5231	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5232	1-216-845-11	RES-CHIP	100K	5%	1/16W
R5233	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5234	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5235	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5237	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5238	1-216-393-00	METAL OXIDE	2.2	5%	3W
R5239	1-208-848-11	METAL CHIP	560K	0.5%	1/10W
R5241	1-216-841-11	RES-CHIP	47K	5%	1/16W
R5300	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5301	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R5302	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5303	1-208-816-11	METAL CHIP	27K	0.5%	1/10W
R5304	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5305	*1-208-852-11	METAL CHIP	820K	0.5%	1/10W
R5306	1-208-803-11	METAL CHIP	7.5K	0.5%	1/10W
R5307	1-216-041-00	RES-CHIP	470	5%	1/10W
R5308	1-216-295-91	SHORT	0		
R5309	1-208-824-91	RES-CHIP	56K	0.5%	1/10W
R5310	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R5311	1-216-045-00	RES-CHIP	680	5%	1/10W
R5312	1-208-832-11	METAL CHIP	120K	0.5%	1/10W
R5314	1-208-840-11	METAL CHIP	270K	0.5%	1/10W
R5315	1-216-043-91	RES-CHIP	560	5%	1/10W
R5316	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5317	1-216-845-11	RES-CHIP	100K	5%	1/16W
R5318	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5319	1-208-840-11	METAL CHIP	270K	0.5%	1/10W
R5320	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5321	1-216-837-11	RES-CHIP	22K	5%	1/16W
R5322	1-216-820-11	RES-CHIP	820	5%	1/16W
R5324	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R5325	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R5326	1-216-845-11	RES-CHIP	100K	5%	1/16W

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REF.NO.	PART.NO	DESCRIPTION				REMARK
R5327	1-216-472-00	METAL OXIDE	39	5%	3W	
R5328	1-216-033-00	RES-CHIP	220	5%	1/10W	
R5331	1-216-033-00	RES-CHIP	220	5%	1/10W	
R5332	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	
R5333	1-208-820-91	METAL CHIP	39K	0.5%	1/10W	
R5334	1-208-834-91	METAL CHIP	150K	0.5%	1/10W	
R5335	1-208-818-11	METAL CHIP	33K	0.5%	1/10W	
R5336	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R5337	1-216-831-11	RES-CHIP	6.8K	5%	1/16W	
R5338	1-247-823-91	CARBON	470	5%	1/4W	
R5340	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R5341	1-216-089-91	RES-CHIP	47K	5%	1/10W	
R5342	1-208-818-11	METAL CHIP	33K	0.5%	1/10W	
R5343	1-208-808-11	METAL CHIP	12K	0.5%	1/10W	
R5344	1-208-820-11	METAL CHIP	39K	0.5%	1/10W	
R5345	1-208-832-11	METAL CHIP	120K	0.5%	1/10W	
R5346	1-216-849-11	RES-CHIP	220K	5%	1/16W	
R5400	1-216-849-11	RES-CHIP	220K	5%	1/16W	
R5401	1-216-837-11	RES-CHIP	22K	5%	1/16W	
R5402	1-216-081-00	RES-CHIP	22K	5%	1/10W	
R5403	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	
R5404	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	
R5405	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	
R5407	1-216-857-11	RES-CHIP	1M	5%	1/16W	
R5408	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	
R5409	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W	
R5410	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	
R5411	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	
R5413	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W	
R5414	1-249-383-11	CARBON	1.5	5%	1/4W	
R5415	1-249-389-11	CARBON	4.7	5%	1/4W	
R5416	1-215-888-00	METAL OXIDE	220	5%	2W	
R5417	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	
R5420	1-214-798-21	METAL	1.8	1%	1/2W	
R5421	1-214-798-21	METAL	1.8	1%	1/2W	
R5803	1-216-861-11	RES-CHIP	2.2M	5%	1/16W	
R5804	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R5805	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R5806	1-216-089-91	RES-CHIP	47K	5%	1/10W	
R5807	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R5808	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R5809	1-216-073-91	RES-CHIP	10K	5%	1/10W	
R5865	1-216-841-11	RES-CHIP	47K	5%	1/16W	
R5869	1-216-817-11	RES-CHIP	470	5%	1/16W	
R5871	1-216-850-11	RES-CHIP	270K	5%	1/16W	
R5875	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	
R5877	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	
R5878	1-216-295-91	SHORT	0			
R5879	1-216-809-11	RES-CHIP	100	5%	1/16W	
R5880	1-216-809-11	RES-CHIP	100	5%	1/16W	
R5881	1-216-833-11	RES-CHIP	10K	5%	1/16W	
R5882	1-216-833-11	RES-CHIP	10K	5%	1/16W	
R5883	1-216-859-11	RES-CHIP	1.5M	5%	1/16W	
R5884	1-216-841-11	RES-CHIP	47K	5%	1/16W	
R5885	1-216-809-11	RES-CHIP	100	5%	1/16W	
R5887	1-216-809-11	RES-CHIP	100	5%	1/16W	
R5888	1-216-809-11	RES-CHIP	100	5%	1/16W	
R5889	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	
R5892	1-216-833-11	RES-CHIP	10K	5%	1/16W	
R5895	1-216-833-11	RES-CHIP	10K	5%	1/16W	
R5898	1-216-832-11	RES-CHIP	8.2K	5%	1/16W	
R5899	1-216-863-11	RES-CHIP	3.3M	5%	1/16W	
R6200	1-216-635-11	METAL CHIP	220	0.5%	1/10W	
R6201	1-216-643-11	METAL CHIP	470	0.5%	1/10W	
R7007	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R7018	1-216-025-11	RES-CHIP	100	5%	1/10W	
R7023	1-216-834-11	RES-CHIP	12K	5%	1/16W	
R7034	1-216-025-11	RES-CHIP	100	5%	1/10W	
R7035	1-216-025-11	RES-CHIP	100	5%	1/10W	
R7048	1-216-025-11	RES-CHIP	100	5%	1/10W	
R7050	1-216-833-11	RES-CHIP	10K	5%	1/16W	
R7051	1-216-025-11	RES-CHIP	100	5%	1/10W	
R7052	1-216-025-11	RES-CHIP	100	5%	1/10W	
R7053	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R7054	1-216-847-11	RES-CHIP	150K	5%	1/16W	
R7056	1-216-831-11	RES-CHIP	6.8K	5%	1/16W	
R7057	1-216-842-11	RES-CHIP	56K	5%	1/16W	
R7058	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R7065	1-216-821-11	RES-CHIP	1K	5%	1/16W	
R7066	1-216-809-11	RES-CHIP	100	5%	1/16W	
R7067	1-216-295-91	SHORT	0			
R7068	1-216-683-11	METAL CHIP	22K	0.5%	1/10W	
R7070	1-216-817-11	RES-CHIP	470	5%	1/16W	
R7071	1-216-817-11	RES-CHIP	470	5%	1/16W	
R7072	1-216-817-11	RES-CHIP	470	5%	1/16W	
R7073	1-216-041-00	RES-CHIP	470	5%	1/10W	
R7074	1-216-043-91	RES-CHIP	560	5%	1/10W	
R7075	1-216-817-11	RES-CHIP	470	5%	1/16W	
R7076	1-216-041-00	RES-CHIP	470	5%	1/10W	
R7077	1-216-043-91	RES-CHIP	560	5%	1/10W	
R7078	1-216-817-11	RES-CHIP	470	5%	1/16W	
R7079	1-216-041-00	RES-CHIP	470	5%	1/10W	
R7080	1-216-043-91	RES-CHIP	560	5%	1/10W	
R7081	1-216-817-11	RES-CHIP	470	5%	1/16W	
R7082	1-216-821-11	RES-CHIP	1K	5%	1/16W	
R7087	1-216-833-11	RES-CHIP	10K	5%	1/16W	
R7088	1-216-821-91	RES-CHIP	1K	5%	1/16W	
R7089	1-216-819-11	RES-CHIP	680	5%	1/16W	
R7090	1-216-819-11	RES-CHIP	680	5%	1/16W	
R7091	1-216-819-11	RES-CHIP	680	5%	1/16W	

REF.NO.	PART.NO	DESCRIPTION	REMARK
R7096	1-216-803-11	RES-CHIP 33 5%	1/16W
R7097	1-216-803-11	RES-CHIP 33 5%	1/16W
R7098	1-216-803-11	RES-CHIP 33 5%	1/16W

< VARIABLE RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
RV5101	1-238-600-11	RES, ADJ, CARBON 10.0K	

< TUNER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
TU1000	8-598-533-01	FRONTEND BTF-EC411	

< CRYSTAL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
X2000	1-760-628-11	VIBRATOR, CRYSTAL	
X3200	1-781-946-21	VIBRATOR, CRYSTAL	
X5800	1-767-127-11	VIBRATOR, CERAMIC	

*A-1634-062-A M Board, Complete

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C0001	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C0002	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
C0004	1-165-128-11	CERAMIC CHIP 0.22UF	16V
C0006	1-126-947-11	ELECT 47UF	20.00% 25V
C0007	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C0008	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C0009	1-165-128-11	CERAMIC CHIP 0.22UF	16V
C0010	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C0011	1-165-128-11	CERAMIC CHIP 0.22UF	16V
C0012	1-162-924-11	CERAMIC CHIP 56PF	5.00% 50V
C0013	1-165-128-11	CERAMIC CHIP 0.22UF	16V
C0015	1-135-834-91	CERAMIC CHIP 2.2E+06PF	6.3V
C0016	1-165-128-11	CERAMIC CHIP 0.22UF	16V
C0017	1-162-924-11	CERAMIC CHIP 56PF	5.00% 50V
C0019	1-165-128-11	CERAMIC CHIP 0.22UF	16V
C0025	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C0026	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C0027	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C0028	1-126-947-11	ELECT 47UF	20.00% 25V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN0001	1-793-497-11	CONNECTOR, BOARD TO BOARD 40P	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D0001	8-719-992-02	DIODE RB705D	
D0301	8-719-069-56	DIODE UDZSTE-176.2B	

< FERRITE BEAD >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB0003	1-216-295-91	SHORT 0	
FB0004	1-412-006-41	INDUCTOR 10UH	
FB0005	1-216-864-11	SHORT 0	
FB0006	1-216-864-11	SHORT 0	
FB0007	1-216-295-91	SHORT 0	
FB0008	1-216-295-91	SHORT 0	
FB0009	1-412-006-31	INDUCTOR 10UH	
FB0010	1-216-295-91	SHORT 0	
FB0011	1-412-006-31	INDUCTOR 10UH	
FB0012	1-216-295-91	SHORT 0	
FB0015	1-216-864-11	SHORT 0	
FB0016	1-216-864-11	SHORT 0	
FB0017	1-216-295-91	SHORT 0	
FB0018	1-216-295-91	SHORT 0	
FB0019	1-216-295-91	SHORT 0	
FB0020	1-216-295-91	SHORT 0	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC0001	8-759-699-33	IC M24C16-MN6T(A)	
IC0002	6-700-502-01	IC SAA5665HL/M1D/0358	
IC0003	8-759-672-39	IC PST573IMT	
IC0004	8-759-665-11	IC LM393DT	
IC0005	6-700-132-01	IC K6T2008V2A-YF70T00	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q0002	8-729-424-08	TRANSISTOR UN2111	
Q0003	8-729-424-08	TRANSISTOR UN2111	
Q0006	8-729-010-29	TRANSISTOR MSD601-RST1	
Q0007	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q0008	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q0009	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q0010	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q0011	8-729-010-29	TRANSISTOR MSD601-RST1	
Q0012	8-729-424-08	TRANSISTOR UN2111	
Q0013	8-729-421-22	TRANSISTOR UN2211	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R0001	1-216-045-00	RES-CHIP 680 5%	1/10W
R0002	1-216-055-00	RES-CHIP 1.8K 5%	1/10W
R0003	1-216-295-91	SHORT 0	
R0011	1-216-295-91	SHORT 0	
R0014	1-216-081-91	RES-CHIP 22K 5%	1/10W
R0016	1-216-025-11	RES-CHIP 100 5%	1/10W
R0017	1-216-093-91	RES-CHIP 68K 5%	1/10W
R0018	1-216-025-11	RES-CHIP 100 5%	1/10W
R0019	1-216-025-11	RES-CHIP 100 5%	1/10W
R0020	1-216-049-11	RES-CHIP 1K 5%	1/10W
R0022	1-216-809-11	RES-CHIP 100 5%	1/16W
R0023	1-216-097-11	RES-CHIP 100K 5%	1/10W
R0027	1-216-821-11	RES-CHIP 1K 5%	1/16W
R0028	1-216-809-11	RES-CHIP 100 5%	1/16W
R0029	1-216-025-11	RES-CHIP 100 5%	1/10W
R0030	1-216-025-11	RES-CHIP 100 5%	1/10W

M **G**

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION			REMARK
R0032	1-216-809-11	RES-CHIP	100	5%	1/16W
R0033	1-216-809-11	RES-CHIP	100	5%	1/16W
R0034	1-218-725-11	RES-CHIP	24K	5%	1/16W
R0035	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R0037	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R0039	1-216-809-11	RES-CHIP	100	5%	1/16W
R0040	1-216-809-11	RES-CHIP	100	5%	1/16W
R0041	1-216-057-91	RES-CHIP	2.2K	5%	1/10W
R0042	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R0043	1-216-803-11	RES-CHIP	33	5%	1/16W
R0044	1-216-025-11	RES-CHIP	100	5%	1/10W
R0045	1-216-803-11	RES-CHIP	33	5%	1/16W
R0046	1-216-803-11	RES-CHIP	33	5%	1/16W
R0047	1-216-810-11	RES-CHIP	120	5%	1/16W
R0048	1-216-809-11	RES-CHIP	100	5%	1/16W
R0049	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0050	1-216-810-11	RES-CHIP	120	5%	1/16W
R0051	1-216-835-91	RES-CHIP	15K	5%	1/16W
R0052	1-216-810-11	RES-CHIP	120	5%	1/16W
R0053	1-216-809-11	RES-CHIP	100	5%	1/16W
R0054	1-216-809-11	RES-CHIP	100	5%	1/16W
R0055	1-216-809-11	RES-CHIP	100	5%	1/16W
R0056	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0057	1-216-809-11	RES-CHIP	100	5%	1/16W
R0058	1-216-823-91	RES-CHIP	1.5K	5%	1/16W
R0059	1-216-841-11	RES-CHIP	47K	5%	1/16W
R0060	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0061	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0062	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0063	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0065	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0066	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0067	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0068	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0069	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0070	1-216-025-11	RES-CHIP	100	5%	1/10W
R0071	1-216-809-11	RES-CHIP	100	5%	1/16W
R0072	1-216-809-11	RES-CHIP	100	5%	1/16W
R0073	1-216-809-11	RES-CHIP	100	5%	1/16W
R0074	1-216-809-11	RES-CHIP	100	5%	1/16W
R0075	1-216-025-11	RES-CHIP	100	5%	1/10W
R0076	1-216-049-11	RES-CHIP	1K	5%	1/10W
R0078	1-216-041-00	RES-CHIP	470	5%	1/10W
R0079	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R0301	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0302	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0303	1-216-836-11	RES-CHIP	18K	5%	1/16W
R0304	1-216-831-11	RES-CHIP	6.8K	5%	1/16W

< CRYSTAL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
X0001	1-578-774-11	VIBRATOR, CRYSTAL	

*A-1637-024-A G Board, Complete

4-382-854-01 SCREW (M3X8), P, SW (+)

< CAPACITOR >

REF.NO.		PART.NO	DESCRIPTION			REMARK
C6001	⚠	1-137-999-11	FILM	0.1UF		275V
C6002	⚠	1-137-999-11	FILM	0.1UF		275V
C6003	⚠	1-119-887-51	CERAMIC	1000PF	20.00%	250V
C6004	⚠	1-119-887-51	CERAMIC	1000PF	20.00%	250V
C6005		1-126-965-91	ELECT	22UF	20.00%	50V
C6006		1-117-753-11	ELECT(BLOCK)	470UF	20.00%	450V
C6007		1-126-964-11	ELECT	10UF	20.00%	50V
C6008		1-126-963-11	ELECT	4.7UF	20.00%	50V
C6010		1-136-165-00	FILM	0.1UF	5.00%	50V
C6011		1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C6012		1-161-830-00	CERAMIC	0.0047UF		500V
C6013		1-161-830-00	CERAMIC	0.0047UF		500V
C6015		1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6016		1-161-830-00	CERAMIC	0.0047UF		500V
C6017		1-161-830-00	CERAMIC	0.0047UF		500V
C6018		1-126-949-11	ELECT	220UF	20.00%	35V
C6019		1-164-645-11	CERAMIC	1000PF	10.00%	500V
C6020		1-135-946-21	FILM	47000PF	3%	800V
C6021		1-164-645-11	CERAMIC	1000PF	10.00%	500V
C6022		1-126-963-11	ELECT	4.7UF	20.00%	50V
C6023		1-110-626-11	ELECT	330UF	20.00%	160V
C6024		1-164-625-91	CERAMIC CHIP	680PF	10.00%	500V
C6026		1-164-625-91	CERAMIC CHIP	680PF	10.00%	500V
C6027		1-164-625-91	CERAMIC CHIP	680PF	10.00%	500V
C6028		1-128-548-11	ELECT	4700UF	20.00%	25V
C6029		1-126-939-11	ELECT	10000UF	20.00%	16V
C6030		1-119-940-51	ELECT	4700UF	20.00%	50V
C6031		1-535-143-61	LEAD,JUMPER (5.0MM)			
C6032		1-161-744-00	CERAMIC	0.01UF		400V
C6033		1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C6035		1-136-165-00	FILM	0.1UF	5.00%	50V
C6036		1-136-479-11	FILM	0.001UF	2.00%	50V
C6037		1-126-947-11	ELECT	47UF	20.00%	25V
C6040		1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C6045		1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6102		1-126-943-11	ELECT	2200UF	20.00%	25V
C6103		1-126-971-11	ELECT	470UF	20.00%	50V
C6105		1-126-964-11	ELECT	10UF	20.00%	50V
C6106		1-126-964-11	ELECT	10UF	20.00%	50V

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< CONNECTOR >	
CN6001	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CN6002	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN6003	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN6004	*1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN6005	*1-564-509-11	PLUG, CONNECTOR 6P	
CN6006	*1-564-516-11	PLUG, CONNECTOR 13P	
CN6008	*1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D6001	8-719-085-11	DIODE GSIB460/45	
D6002	8-719-982-26	DIODE MTZJ-33B	
D6004	8-719-979-64	DIODE UF4005PKG23	
D6006	8-719-081-97	DIODE MMDL914T1	
D6007	8-719-081-97	DIODE MMDL914T1	
D6008	8-719-063-70	DIODE D1NL20U	
D6009	8-719-110-41	DIODE RD15ES-B2	
D6010	8-719-085-24	DIODE FBIU4D7M1-B	
D6016	8-719-309-99	DIODE RBV-406B	
D6031	8-719-022-98	DIODE D2S4MTA1	
D6032	8-719-022-97	DIODE D2S4MTA1	
D6033	8-719-022-97	DIODE D2S4MTA1	
D6034	8-719-022-97	DIODE D2S4MTA1	
D6101	8-719-081-97	DIODE MMDL914T1	
D6102	8-719-511-40	DIODE S1VB40	
D6103	8-719-081-97	DIODE MMDL914T1	
D6104	8-719-081-97	DIODE MMDL914T1	
D6105	8-719-081-97	DIODE MMDL914T1	
D6106	8-719-081-97	DIODE MMDL914T1	
D6107	8-719-081-97	DIODE MMDL914T1	
		< FERRITE BEAD >	
FB6002	1-410-397-21	FERRITE 1.1UH	
FB6003	1-410-397-21	FERRITE 1.1UH	
		< IC >	
IC6001	8-759-670-30	IC MCZ3001D	
IC6003	8-749-016-19	IC SE135N-LF4	
		< COIL >	
L6001	1-406-663-21	INDUCTOR 47UH	
L6002	1-412-529-11	INDUCTOR 22UH	
L6003	1-412-529-11	INDUCTOR 22UH	
L6004	1-535-143-61	LEAD, JUMPER (5.0MM)	
L6005	1-535-143-61	LEAD, JUMPER (5.0MM)	
L6006	1-406-659-11	INDUCTOR 10UH	
L6007	1-412-525-31	INDUCTOR 10UH	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< PHOTO COUPLER >	
PH6001 ⚠	8-749-016-21	IC TCET1103G	
		< TRANSISTOR >	
Q6003	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6005	8-729-029-56	TRANSISTOR DTA144ESA	
Q6006	8-729-056-60	TRANSISTOR SPA07N60C2	
Q6007	8-729-056-60	TRANSISTOR SPA07N60C2	
Q6010	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6101	8-729-029-56	TRANSISTOR DTA144ESA	
Q6102	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6103	8-729-029-56	TRANSISTOR DTA144ESA	
Q6104	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6105	8-729-010-29	TRANSISTOR MSD601-RST1	
		< RESISTOR >	
R6003	1-202-933-61	FUSIBLE 0.1 10% 1/2W	
R6004	1-205-998-11	CEMENTED 1 5% 10W	
R6005	1-205-998-11	CEMENTED 1 5% 10W	
R6006	1-205-998-11	CEMENTED 1 5% 10W	
R6007	1-243-979-21	METAL OXIDE 0.1 5% 2W	
R6008	1-243-979-21	METAL OXIDE 0.1 5% 2W	
R6009	1-208-810-11	METAL CHIP 15K 0.5% 1/10W	
R6010	1-215-481-00	METAL 330K 1% 1/4W	
R6013 ⚠	1-218-265-21	FILM 8.2M 5% 1W	
R6014	1-215-926-00	METAL OXIDE 33K 5% 3W	
R6015	1-208-757-11	METAL CHIP 91 0.5% 1/10W	
R6016	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R6017	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R6018	1-247-895-91	CARBON 470K 5% 1/4W	
R6019	1-247-891-00	CARBON 330K 5% 1/4W	
R6020	1-216-820-11	RES-CHIP 820 5% 1/16W	
R6021	1-216-362-11	METAL OXIDE 0.27 5% 2W	
R6022	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R6024	1-211-964-91	RES-CHIP 33 0.5% 1/10W	
R6029	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R6030	1-216-817-11	RES-CHIP 470 5% 1/16W	
R6032	1-249-417-11	CARBON 1K 5% 1/4W	
R6033	1-215-481-00	METAL 330K 1% 1/4W	
R6034	1-249-389-11	CARBON 4.7 5% 1/4W	
R6035	1-260-083-91	CARBON 47 5% 1/2W	
R6036	1-216-817-11	RES-CHIP 470 5% 1/16W	
R6037	1-249-405-11	CARBON 100 5% 1/4W	
R6038	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
R6039	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
R6040	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	
R6042	1-216-295-91	SHORT 0	
R6045	1-208-770-11	METAL CHIP 330 0.5% 1/10W	
R6047	1-208-842-11	METAL CHIP 330K 0.5% 1/10W	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.		PART.NO	DESCRIPTION			REMARK
R6048		1-215-481-00	METAL	330K	1%	1/4W
R6049		1-208-805-11	METAL CHIP	9.1K	0.5%	1/10W
R6050		1-208-758-11	METAL CHIP	100	0.5%	1/10W
R6054		1-211-964-91	RES-CHIP	33	0.5%	1/10W
R6056		1-216-295-91	SHORT	0		
R6101		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6102		1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6103		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6104		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6105		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6106		1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6107		1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6108		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6109		1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6110		1-216-821-11	RES-CHIP	1K	5%	1/16W

< RELAY >

REF.NO.		PART.NO	DESCRIPTION
RY6001	⚠	1-755-395-11	RELAY (AC POWER)
RY6002	⚠	1-755-389-11	RELAY (AC POWER)

< TRANSFORMER >

REF.NO.		PART.NO	DESCRIPTION
T6002	⚠	1-437-443-11	TRANSFORMER, PIT
T6003	⚠	1-424-896-11	TRANSFORMER, LINE FILTER
T6101	⚠	1-437-483-11	TRANSFORMER, STANDBY

< THERMISTOR >

REF.NO.		PART.NO	DESCRIPTION
TH6002	⚠	1-803-541-11	THERMISTOR

*A-1638-158-A C Board, Complete

4-382-854-01 SCREW (M3X8), P, SW (+)

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION			REMARK
C7303	1-162-909-91	CERAMIC CHIP	4PF	0.25PF	50V
C7305	1-136-207-11	MYLAR	0.047UF	10.00%	400V
C7306	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C7309	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C7310	1-163-113-00	CERAMIC CHIP	68PF	5.00%	50V
C7325	1-162-909-91	CERAMIC CHIP	4PF	0.25PF	50V
C7326	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C7330	1-136-207-11	MYLAR	0.047UF	10.00%	400V
C7333	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C7334	1-163-113-00	CERAMIC CHIP	68PF	5.00%	50V
C7350	1-104-664-91	ELECT	47UF	20.00%	50V
C7351	1-162-909-91	CERAMIC CHIP	4PF	0.25PF	50V
C7352	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C7354	1-126-933-11	ELECT	100UF	20.00%	16V
C7355	1-107-967-11	ELECT	1UF	20.00%	400V
C7356	1-136-207-11	MYLAR	0.047UF	10.00%	400V
C7359	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C7360	1-163-113-00	CERAMIC CHIP	68PF	5.00%	50V
C7378	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C7379	1-162-114-00	CERAMIC	0.0047UF		2KV
C7385	1-162-913-91	CERAMIC CHIP	8PF	0.50PF	50V
C7388	1-162-913-91	CERAMIC CHIP	8PF	0.50PF	50V
C7391	1-162-913-91	CERAMIC CHIP	8PF	0.50PF	50V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION
CN7300	*1-564-508-11	PLUG, CONNECTOR 5P
CN7301	*1-564-512-11	PLUG, CONNECTOR 9P
CN7311	1-695-915-11	TAB (CONTACT)
CN7333	1-695-915-11	TAB (CONTACT)

< DIODE >

REF.NO.	PART.NO	DESCRIPTION
D7300	8-719-911-19	DIODE 1SS119-25
D7325	8-719-911-19	DIODE 1SS119-25
D7350	8-719-911-19	DIODE 1SS119-25
D7375	8-719-991-33	DIODE 1SS133T-77
D7376	8-719-991-33	DIODE 1SS133T-77

< IC >

REF.NO.	PART.NO	DESCRIPTION
IC7300	8-759-360-83	IC TDA6111Q/N4
IC7325	8-759-360-83	IC TDA6111Q/N4
IC7350	8-759-360-83	IC TDA6111Q/N4

< SOCKET >

REF.NO.		PART.NO	DESCRIPTION
J7375	⚠	1-251-732-11	SOCKET, CRT

< COIL >

REF.NO.		PART.NO	DESCRIPTION	
L7375		1-410-671-31	INDUCTOR	47UH
L7376	⚠	1-532-637-00	LINK, IC 1A/150V	
L7378		1-414-934-21	INDUCTOR	10UH

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION
Q7350	8-729-901-06	TRANSISTOR DTA144EK
Q7352	8-729-421-19	TRANSISTOR UN2213
Q7353	8-729-421-19	TRANSISTOR UN2213
Q7354	8-729-901-06	TRANSISTOR DTA144EK
Q7355	8-729-421-19	TRANSISTOR UN2213

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION			REMARK
R7300	1-249-417-11	CARBON	1K	5%	1/4W
R7302	1-535-143-61	LEAD, JUMPER (5.0MM)			
R7303	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R7304	1-202-565-81	RES-SOLID	470	20%	1/2W
R7305	1-215-903-11	METAL OXIDE	68K	5%	2W
R7306	1-535-143-61	LEAD, JUMPER (5.0MM)			
R7309	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R7325	1-249-417-11	CARBON	1K	5%	1/4W
R7327	1-535-143-61	LEAD, JUMPER (5.0MM)			

REF.NO.	PART.NO	DESCRIPTION	REMARK
R7328	1-216-824-11	RES-CHIP 1.8K 5%	1/16W
R7329	1-202-565-81	RES-SOLID 470 20%	1/2W
R7330	1-215-903-11	METAL OXIDE 68K 5%	2W
R7331	1-535-143-61	LEAD, JUMPER (5.0MM)	
R7335	1-216-824-11	RES-CHIP 1.8K 5%	1/16W
R7350	1-249-417-11	CARBON 1K 5%	1/4W
R7355	1-535-143-61	LEAD, JUMPER (5.0MM)	
R7356	1-216-824-11	RES-CHIP 1.8K 5%	1/16W
R7357	1-202-565-81	RES-SOLID 470 20%	1/2W
R7358	1-215-903-11	METAL OXIDE 68K 5%	2W
R7360	1-535-143-61	LEAD, JUMPER (5.0MM)	
R7364	1-216-824-11	RES-CHIP 1.8K 5%	1/16W
R7373	1-216-823-11	RES-CHIP 1.5K 5%	1/16W
R7375	1-249-435-11	CARBON 33K 5%	1/4W
R7376	1-249-429-11	CARBON 10K 5%	1/4W
R7377	1-249-430-11	CARBON 12K 5%	1/4W
R7379	1-216-833-11	RES-CHIP 10K 5%	1/16W
R7380	1-216-833-11	RES-CHIP 10K 5%	1/16W
R7381	1-216-833-11	RES-CHIP 10K 5%	1/16W
R7382	1-202-549-00	RES-SOLID 100 20%	1/2W
R7383	1-216-399-00	METAL OXIDE 6.8 5%	3W
R7384	1-216-399-00	METAL OXIDE 6.8 5%	3W
R7385	1-202-549-00	RES-SOLID 100 20%	1/2W
R7388	1-535-143-51	LEAD, JUMPER (20.0MM)	
R7390	1-249-417-11	CARBON 1K 5%	1/4W
R7391	1-216-824-11	RES-CHIP 1.8K 5%	1/16W
R7393	1-216-823-11	RES-CHIP 1.5K 5%	1/16W
R7394	1-249-417-11	CARBON 1K 5%	1/4W
R7395	1-216-824-11	RES-CHIP 1.8K 5%	1/16W
R7397	1-216-823-11	RES-CHIP 1.5K 5%	1/16W
R7398	1-249-417-11	CARBON 1K 5%	1/4W
R7399	1-216-824-11	RES-CHIP 1.8K 5%	1/16W

< VARIABLE RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
RV7375	1-241-656-11	RES, ADJ, METAL FILM 110M	

*A-1640-432-A D Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-382-854-01	SCREW (M3X8), P, SW (+)	
	*4-931-401-01	HEAT SINK, V.OUT	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C8100	1-136-165-00	FILM 0.1UF	5.00% 50V
C8101	1-136-165-00	FILM 0.1UF	5.00% 50V
C8102	1-136-165-00	FILM 0.1UF	5.00% 50V
C8103	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C8104	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C8105	1-126-947-11	ELECT 47UF	20.00% 25V
C8106	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
C8108	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8109	1-126-947-11	ELECT 47UF	20.00% 25V
C8113	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8114	1-126-964-11	ELECT 10UF	20.00% 50V
C8115	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8116	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C8117	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C8118	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8120	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C8125	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8126	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C8128	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8130	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C8131	1-126-964-11	ELECT 10UF	20.00% 50V
C8132	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C8134	1-102-504-91	CERAMIC 4PF	0.25PF 50V
C8135	1-126-964-11	ELECT 10UF	20.00% 50V
C8136	1-126-964-11	ELECT 10UF	20.00% 50V
C8140	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8209	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
C8210	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8801	1-126-947-11	ELECT 47UF	20.00% 25V
C8802	1-126-960-11	ELECT 1UF	20.00% 50V
C8803	1-126-960-11	ELECT 1UF	20.00% 50V
C8804	1-102-114-00	CERAMIC 470PF	10.00% 50V
C8805	1-102-114-00	CERAMIC 470PF	10.00% 50V
C8808	1-102-030-00	CERAMIC 330PF	10.00% 500V
C8809	1-102-030-00	CERAMIC 330PF	10.00% 500V
C8810	1-107-368-11	MYLAR 0.047UF	10.00% 200V
C8811	1-107-368-11	MYLAR 0.047UF	10.00% 200V
C8812	1-162-131-11	CERAMIC 220PF	10.00% 2KV
C8813	1-107-444-11	CERAMIC 100PF	10.00% 2KV
C8814	1-117-640-11	FILM 6800PF	3.00% 1.2KV
C8815	1-117-835-11	FILM 6200PF	3.00% 1.5KV
C8816	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8817	1-125-893-11	FILM 680PF	3.00% 1.5KV
C8818	1-125-893-11	FILM 680PF	3.00% 1.5KV
C8819	1-125-893-11	FILM 680PF	3.00% 1.5KV
C8820	1-125-893-11	FILM 680PF	3.00% 1.5KV
C8824	1-107-846-11	FILM 0.1UF	5.00% 250V
C8825	1-117-663-11	FILM 0.22UF	5.00% 250V
C8826	1-115-518-11	FILM 0.47UF	5.00% 250V
C8827	1-117-660-21	FILM 0.12UF	5.00% 250V
C8828	1-127-681-11	FILM MELF 10000PF	2% 100V
C8829	1-127-680-11	FILM MELF 4700PF	2% 100V
C8830	1-107-655-11	ELECT 47UF	20.00% 250V
C8831	1-102-228-00	CERAMIC 470PF	10.00% 500V
C8832	1-126-941-11	ELECT 470UF	20.00% 25V
C8833	1-126-941-11	ELECT 470UF	20.00% 25V
C8834	1-102-228-00	CERAMIC 470PF	10.00% 500V
C8835	1-102-228-00	CERAMIC 470PF	10.00% 500V

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REF.NO.	PART.NO	DESCRIPTION	REMARK
C8836	1-123-024-21	ELECT 33UF	160V
C8837	1-106-375-12	MYLAR 0.022UF	10.00% 250V
C8840	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C8841	1-126-947-11	ELECT 47UF	20.00% 25V
C8844	1-115-513-21	FILM 0.18UF	5.00% 250V
C8851	1-162-131-11	CERAMIC 220PF	10.00% 2KV
C8852	1-162-129-00	CERAMIC 150PF	10.00% 2KV
C8853	1-129-898-00	FILM 0.0022UF	5.00% 630V
C8855	1-136-205-11	MYLAR 0.022UF	10.00% 400V
C8856	1-102-030-00	CERAMIC 330PF	10.00% 500V
C8860	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8861	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8869	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
		< CONNECTOR >	
CN8600	*1-564-509-11	PLUG, CONNECTOR 6P	
CN8601	*1-564-506-11	PLUG, CONNECTOR 3P	
CN8611	*1-785-270-12	PIN, DY CONNECTOR (PC BOARD)	
CN8612	*1-564-511-51	PLUG, CONNECTOR 8P	
CN8614	*1-564-508-11	PLUG, CONNECTOR 5P	
CN8616	1-695-915-11	TAB (CONTACT)	
CN8620	*1-764-333-11	PLUG, CONNECTOR 10P	
CN8810	*1-564-510-11	PLUG, CONNECTOR 7P	
		< DIODE >	
D8102	8-719-081-97	DIODE MMDL914T1	
D8103	8-719-081-97	DIODE MMDL914T1	
D8104	8-719-081-97	DIODE MMDL914T1	
D8105	8-719-081-97	DIODE MMDL914T1	
D8107	8-719-081-97	DIODE MMDL914T1	
D8108	8-719-921-40	DIODE MTZJ-4.7C	
D8128	8-719-081-97	DIODE MMDL914T1	
D8129	8-719-081-97	DIODE MMDL914T1	
D8132	8-719-081-97	DIODE MMDL914T1	
D8133	8-719-081-97	DIODE MMDL914T1	
D8198	1-535-143-61	LEAD, JUMPER (5.0MM)	
D8199	8-719-081-97	DIODE MMDL914T1	
D8611	8-719-081-97	DIODE MMDL914T1	
D8612	8-719-081-97	DIODE MMDL914T1	
D8803	8-719-908-03	DIODE GP08D	
D8805	8-719-302-43	DIODE EL1Z	
D8806	8-719-979-85	DIODE EGP20G	
D8807	8-719-085-12	DIODE BYV98-200-RAS 15/12	
D8808	8-719-085-12	DIODE BYV98-200-RAS 15/12	
D8811	8-719-110-41	DIODE RD15ES-B2	
D8818	8-719-109-89	DIODE RD5.6ESB2	
D8819	8-719-050-38	DIODE M1MA152WK-T1	
D8820	8-719-081-97	DIODE MMDL914T1	
D8851	8-719-970-87	DIODE ERA38-06	
D8856	8-719-081-97	DIODE MMDL914T1	

REF.NO.	PART.NO	DESCRIPTION	REMARK
D8857	8-719-110-41	DIODE RD15ES-B2	
D8858	8-719-081-97	DIODE MMDL914T1	
		< FERRITE BEAD >	
FB8807	1-410-397-21	FERRITE	1.1UH
		< IC >	
IC8100	8-759-450-95	IC LM393N	
IC8101	8-759-450-95	IC LM393N	
IC8102	8-759-638-79	IC NJM3404AD-W	
IC8103	8-759-450-95	IC LM393N	
		< COIL >	
L8801	1-410-397-21	FERRITE	1.1UH
L8802	1-410-397-21	FERRITE	1.1UH
L8803	1-410-397-21	FERRITE	1.1UH
L8805	1-408-947-00	INDUCTOR	2.2MH
L8851	1-535-143-61	LEAD, JUMPER	(5.0MM)
		< FILTER >	
LF8801	1-406-985-11	INDUCTOR	2.2MH
LF8851	1-406-674-11	INDUCTOR	3.3MH
		< TRANSISTOR >	
Q8100	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8101	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8102	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8103	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8104	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8105	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8106	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8107	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8108	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8110	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8112	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8113	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8115	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8118	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8119	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8120	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8122	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8123	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8125	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8126	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8127	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8128	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8132	8-729-421-19	TRANSISTOR UN2213	
Q8135	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8136	8-729-010-05	TRANSISTOR MSB709-RT1	

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REF.NO.	PART.NO	DESCRIPTION	REMARK
Q8137	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8201	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8202	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8203	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8455	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8801	8-729-048-47	TRANSISTOR 2SC2688(5)-LK	
Q8802	8-729-048-47	TRANSISTOR 2SC2688(5)-LK	
Q8803	8-729-056-16	TRANSISTOR 2SC5698-CA	
Q8804	8-729-056-17	TRANSISTOR 2SC5696-SONY-CA	
Q8805	8-729-050-48	TRANSISTOR IRF614-005	
Q8806	8-729-047-59	TRANSISTOR STP5NB40FP	
Q8807	8-729-421-19	TRANSISTOR UN2213	
Q8822	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8823	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8851	6-550-012-01	TRANSISTOR STP5NB40(030Y)	
	< RESISTOR >		
R8100	1-216-813-11	RES-CHIP 220 5% 1/16W	
R8101	1-216-813-11	RES-CHIP 220 5% 1/16W	
R8102	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8103	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8104	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8105	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R8106	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8107	1-208-792-91	RES-CHIP 2.7K 0.5% 1/10W	
R8108	1-208-792-91	RES-CHIP 2.7K 0.5% 1/10W	
R8109	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	
R8110	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	
R8111	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8112	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8113	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R8114	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R8115	1-216-845-91	RES-CHIP 100K 5% 1/16W	
R8116	1-216-845-91	RES-CHIP 100K 5% 1/16W	
R8117	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R8118	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R8119	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R8120	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8121	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8122	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8123	1-216-841-11	RES-CHIP 47K 5% 1/16W	
R8124	1-216-821-91	RES-CHIP 1K 5% 1/16W	
R8125	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8126	1-216-815-11	RES-CHIP 330 5% 1/16W	
R8127	1-208-794-11	METAL CHIP 3.3K 0.5% 1/10W	
R8128	1-208-822-11	METAL CHIP 47K 0.5% 1/10W	
R8129	1-208-822-11	METAL CHIP 47K 0.5% 1/10W	
R8130	1-208-846-11	METAL CHIP 470K 0.5% 1/10W	
R8131	1-216-815-11	RES-CHIP 330 5% 1/16W	
R8132	1-216-815-11	RES-CHIP 330 5% 1/16W	
R8133	1-216-815-11	RES-CHIP 330 5% 1/16W	
R8136	1-208-822-11	METAL CHIP 47K 0.5% 1/10W	
R8137	1-208-822-11	METAL CHIP 47K 0.5% 1/10W	
R8138	1-208-822-11	METAL CHIP 47K 0.5% 1/10W	
R8139	1-208-822-11	METAL CHIP 47K 0.5% 1/10W	
R8140	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8141	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	
R8142	1-208-803-11	METAL CHIP 7.5K 0.5% 1/10W	
R8143	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8144	1-216-841-11	RES-CHIP 47K 5% 1/16W	
R8145	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8146	1-208-790-11	METAL CHIP 2.2K 0.5% 1/10W	
R8149	1-216-828-11	RES-CHIP 3.9K 5% 1/16W	
R8150	1-216-837-91	RES-CHIP 22K 5% 1/16W	
R8153	1-216-295-91	SHORT 0	
R8154	1-208-782-11	METAL CHIP 1K 0.5% 1/10W	
R8155	1-208-789-91	RES-CHIP 2K 0.5% 1/10W	
R8158	1-208-794-11	METAL CHIP 3.3K 0.5% 1/10W	
R8159	1-216-295-91	SHORT 0	
R8160	1-216-295-91	SHORT 0	
R8161	1-208-804-11	METAL CHIP 8.2K 0.5% 1/10W	
R8162	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R8163	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R8164	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	
R8165	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
R8168	1-216-829-11	RES-CHIP 4.7K 5% 1/16W	
R8169	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
R8170	1-216-815-11	RES-CHIP 330 5% 1/16W	
R8171	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8174	1-216-834-11	RES-CHIP 12K 5% 1/16W	
R8175	1-216-831-91	RES-CHIP 6.8K 5% 1/16W	
R8176	1-216-838-91	RES-CHIP 27K 5% 1/16W	
R8177	1-216-830-91	RES-CHIP 5.6K 5% 1/16W	
R8179	1-216-295-91	SHORT 0	
R8180	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8181	1-216-295-91	SHORT 0	
R8182	1-216-841-11	RES-CHIP 47K 5% 1/16W	
R8183	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8186	1-216-827-11	RES-CHIP 3.3K 5% 1/16W	
R8188	1-216-829-91	RES-CHIP 4.7K 5% 1/16W	
R8189	1-216-822-91	RES-CHIP 1.2K 5% 1/16W	
R8190	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8191	1-215-925-11	METAL OXIDE 22K 5% 3W	
R8196	1-249-377-11	CARBON 0.47 5% 1/4W	
R8197	1-216-841-91	RES-CHIP 47K 5% 1/16W	
R8206	1-216-848-91	RES-CHIP 180K 5% 1/16W	
R8207	1-216-850-91	RES-CHIP 270K 5% 1/16W	
R8209	1-216-295-91	SHORT 0	
R8210	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R8211	1-216-833-11	RES-CHIP 10K 5% 1/16W	

REF.NO.	PART.NO	DESCRIPTION			REMARK
R8212	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8215	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R8216	1-208-812-91	RES-CHIP	18K	0.5%	1/10W
R8217	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8219	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8220	1-216-834-11	RES-CHIP	12K	5%	1/16W
R8221	1-216-833-91	RES-CHIP	10K	5%	1/16W
R8456	1-216-845-11	RES-CHIP	100K	5%	1/16W
R8457	1-216-834-11	RES-CHIP	12K	5%	1/16W
R8458	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8459	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8800	1-247-895-91	CARBON	470K	5%	1/4W
R8804	1-249-408-11	CARBON	180	5%	1/4W
R8805	1-249-408-11	CARBON	180	5%	1/4W
R8806	1-249-411-11	CARBON	330	5%	1/4W
R8807	1-249-411-11	CARBON	330	5%	1/4W
R8808	1-260-340-11	CARBON	10K	5%	1/2W
R8809	1-260-340-11	CARBON	10K	5%	1/2W
R8810	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R8811	1-215-896-51	METAL OXIDE	4.7K	5%	2W
R8812	1-216-461-51	METAL OXIDE	5.6K	5%	2W
R8813	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R8814	1-215-880-00	METAL OXIDE	10	5%	2W
R8815	1-215-880-00	METAL OXIDE	10	5%	2W
R8816	1-216-365-51	METAL OXIDE	0.47	5%	2W
R8817	1-216-361-00	METAL OXIDE	0.22	5%	2W
R8818	1-249-405-11	CARBON	100	5%	1/4W
R8819	1-247-807-31	CARBON	100	5%	1/4W
R8831	1-260-124-11	CARBON	120K	5%	1/2W
R8833	1-202-972-61	FUSIBLE	1	5%	1/4W
R8834	1-260-288-11	CARBON	0.47	5%	1/2W
R8835	1-260-288-11	CARBON	0.47	5%	1/2W
R8836	1-249-432-11	CARBON	18K	5%	1/4W
R8837	1-215-894-11	METAL OXIDE	2.2K	5%	2W
R8838	1-214-905-11	METAL	47K	1%	1/2W
R8839	1-215-894-11	METAL OXIDE	2.2K	5%	2W
R8840	1-247-843-11	CARBON	3.3K	5%	1/4W
R8842	1-260-123-11	CARBON	100K	5%	1/2W
R8843	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8844	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8845	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8851	1-260-123-11	CARBON	100K	5%	1/2W
R8852	1-260-123-11	CARBON	100K	5%	1/2W
R8853	1-260-123-11	CARBON	100K	5%	1/2W
R8854	1-247-847-91	CARBON	4.7K	5%	1/4W
R8856	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8857	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8858	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8859	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8865	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8866	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8867	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8869	1-216-837-11	RES-CHIP	22K	5%	1/16W
R8870	1-216-837-11	RES-CHIP	22K	5%	1/16W
R8885	1-208-854-11	METAL CHIP	1M	0.5%	1/10W
R8886	1-208-840-11	METAL CHIP	270K	0.5%	1/10W
R8887	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8888	1-249-441-11	CARBON	100K	5%	1/4W
R8895	1-249-443-11	CARBON	0.47	5%	1/4W
R8896	1-249-443-11	CARBON	0.47	5%	1/4W
R8897	1-215-485-00	METAL	470K	1%	1/4W
R8898	1-215-493-00	METAL	1M	1%	1/4W
R8899	1-215-493-00	METAL	1M	1%	1/4W

< TRANSFORMER >

REF.NO.	PART.NO	DESCRIPTION
T8800	⚠ 1-453-340-31	TRANSFORMER ASSY, FLYBACK (NX-4522//Z2B4)
T8801	1-437-430-11	TRANSFORMER, FERRITE (HDT)
T8802	1-437-430-11	TRANSFORMER, FERRITE (HDT)
T8852	1-433-487-11	TRANSFORMER, FERRITE (DFT)

*A-1644-119-A VM Board, Complete

4-382-854-01 SCREW (M3X8), P, SW (+)

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION			REMARK
C7401	1-126-935-11	ELECT	470UF	20.00%	16V
C7403	1-126-935-11	ELECT	470UF	20.00%	6.3V
C7404	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C7405	1-126-933-11	ELECT	100UF	20.00%	16V
C7406	1-126-935-11	ELECT	470UF	20.00%	6.3V
C7407	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C7408	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C7409	1-107-649-11	ELECT	2.2UF	20.00%	250V
C7410	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C7411	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C7412	1-126-935-11	ELECT	470UF	20.00%	16V
C7413	1-126-935-11	ELECT	470UF	20.00%	16V
C7414	1-107-652-11	ELECT	10UF	20.00%	250V
C7415	1-107-363-91	MYLAR	0.0068UF	10.00%	200V
C7418	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7421	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION
CN7442	*1-564-508-11	PLUG, CONNECTOR 5P
CN7443	*1-564-506-11	PLUG, CONNECTOR 3P
CN7444	*1-770-723-11	CONNECTOR, BOARD TO BOARD 8P

< DIODE >

REF.NO.	PART.NO	DESCRIPTION
D7400	8-719-991-33	DIODE 1SS133T-77
D7401	8-719-991-33	DIODE 1SS133T-77

VM

REF.NO.	PART.NO	DESCRIPTION	REMARK
D7402	1-535-143-61	LEAD, JUMPER (5.0MM)	
D7403	8-719-991-33	DIODE 1SS133T-77	
D7404	8-719-991-33	DIODE 1SS133T-77	
D7405	8-719-924-11	DIODE MTZJ-T-77-22	
D7406	8-719-924-11	DIODE MTZJ-T-77-22	
		< FERRITE BEAD >	
FB7400	1-535-143-61	LEAD, JUMPER (5.0MM)	
FB7401	1-535-143-61	LEAD, JUMPER (5.0MM)	
		< COIL >	
L7400	1-414-934-21	INDUCTOR 10UH	
L7402	1-414-934-21	INDUCTOR 10UH	
L7403	1-414-934-21	INDUCTOR 10UH	
		< TRANSISTOR >	
Q7400	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7401	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7402	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q7404	8-729-216-22	TRANSISTOR 2SA1162-G	
Q7405	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q7406	8-729-045-05	TRANSISTOR 2SA2005	
Q7407	8-729-045-04	TRANSISTOR 2SC5511	
Q7408	8-729-216-22	TRANSISTOR 2SA1162-G	
Q7409	8-729-010-29	TRANSISTOR MSD601-RST1	
		< RESISTOR >	
R7400	1-216-017-91	RES-CHIP 47 5%	1/10W
R7401	1-216-061-91	RES-CHIP 3.3K 5%	1/10W
R7402	1-216-041-00	RES-CHIP 470 5%	1/10W
R7403	1-249-393-11	CARBON 10 5%	1/4W
R7404	1-249-413-11	CARBON 470 5%	1/4W
R7405	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R7407	1-249-411-11	CARBON 330 5%	1/4W
R7409	1-216-029-00	RES-CHIP 150 5%	1/10W
R7410	1-216-017-91	RES-CHIP 47 5%	1/10W
R7411	1-216-017-91	RES-CHIP 47 5%	1/10W
R7412	1-216-073-91	RES-CHIP 10K 5%	1/10W
R7413	1-249-414-11	CARBON 560 5%	1/4W
R7414	1-249-432-11	CARBON 18K 5%	1/4W
R7415	1-247-739-11	CARBON 100 5%	1/2W
R7416	1-249-389-11	CARBON 4.7 5%	1/4W
R7417	1-249-432-11	CARBON 18K 5%	1/4W
R7418	1-249-414-11	CARBON 560 5%	1/4W
R7419	1-249-421-11	CARBON 2.2K 5%	1/4W
R7420	1-249-421-11	CARBON 2.2K 5%	1/4W
R7421	1-249-388-11	CARBON 3.9 5%	1/4W
R7422	1-249-405-11	CARBON 100 5%	1/4W
R7423	1-215-915-11	METAL OXIDE 470 5%	3W
R7427	1-216-025-11	RES-CHIP 100 5%	1/10W
R7428	1-216-033-00	RES-CHIP 220 5%	1/10W
R7429	1-216-033-00	RES-CHIP 220 5%	1/10W
R7432	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R7433	1-249-400-11	CARBON 39 5%	1/4W
R7434	1-249-395-11	CARBON 15 5%	1/4W
R7435	1-216-029-00	RES-CHIP 150 5%	1/10W
R7436	1-216-047-91	RES-CHIP 820 5%	1/10W

MISCELLANEOUS

REF.NO.	PART.NO	DESCRIPTION	REMARK
⚠	1-571-433-31	SWITCH (AC POWER)	
⚠	1-690-270-21	CORD, POWER (WITH CONNECTOR)	
	1-424-855-11	COIL, CHOKE	
	8-598-533-01	FRONTEND BTF-EC411	
⚠	1-453-340-31	TRANSFORMER ASSY, FLYBACK (NX-4522//Z2B4)	
	1-529-408-11	SPEAKER (4.2x24CM)	
	1-529-417-11	SPEAKER (8CM)	
	8-451-504-31	DEFLECTION YOKE (Y29RSC-S)	
	1-452-896-11	COIL, NA ROTATION (RT200)	
	8-453-011-41	NECK ASSY, (NA299-C)	
⚠	1-424-887-11	COIL, DEGAUSSING	
⚠	1-251-946-11	CAP ASSY, HIGH-VOLTAGE	
⚠	8-735-053-05	PICTURE TUBE (M68LNH060X)	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
	1-452-032-00	MAGNET, DISK; 10MM	

ACCESSORIES AND PACKAGING MATERIALS

REF.NO.	PART.NO	DESCRIPTION	REMARK
	*4-029-168-01	BAG, PROTECTION	
	*4-206-103-01	INDIVIDUAL CARTON	
	4-206-104-11	INSTRUCTION MANUAL (KV-29FX66E) (GERMAN/GREEK/FRENCH/TURKISH)	
	4-206-104-31	INSTRUCTION MANUAL (KV-29FX66E) (DANISH/SPANISH/NORWEGIAN/PORTUGUESE/ SWEDISH/FINNISH)	
	4-206-104-41	INSTRUCTION MANUAL (KV-29FX66E) (ITALIAN)	
	4-206-104-21	INSTRUCTION MANUAL (KV-29FX66K) (BULGARIAN/CZECH/ENGLISH/HUNGARIAN/ POLISH/RUSSIAN)	

REMOTE COMMANDER

REF.NO.	PART.NO	DESCRIPTION	REMARK
	1-476-700-11	REMOTE COMMANDER (RM-934)	

TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.

RS-232
IR
I²C
SONY-TCSE
TRACE
CTRL
POWER
9V DC
POWER

The TRACE interface connects to the PC's serial port. It provides connection to the TV's I^{2}C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

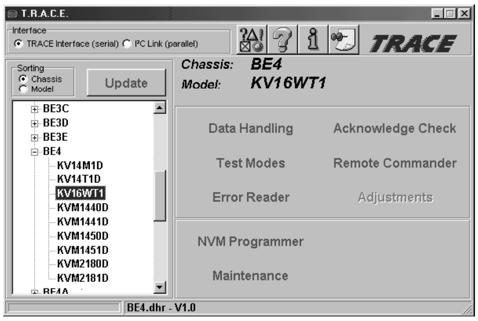
The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I^{2}C bus
- Acknowledge check of all I^{2}C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.


T.R.A.C.E.
TRACE
Update
BE3C
BE3D
BE3E
BE4
KV14M1D
KV14T1D
KV16WT1
KVM1440D
KVM1441D
KVM1450D
KVM1451D
KVM2180D
KVM2181D
BE4A
Data Handling
Acknowledge Check
Test Modes
Remote Commander
Error Reader
Adjustments
NVM Programmer
Maintenance
BE4.dhr - V1.0

Interface: ● TRACE Interface (serial) ○ I²C Link (parallel)

Sorting: ● Chassis ○ Model

Chassis: BE4

Model: KV16WT1

Note: For workshops already using the existing I^{2}C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers:		
	TRACE Starter Kit (TRACE interface + software):	9-948-320-70
	TRACE Software (for users of the I^{2}C Link interface):	9-948-340-80
	TRACE IR Add-on (IR interface + Remote Commander software):	9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

* WindowsNT only supported with TRACE interface

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